Panasonic Products: Complete Guide and Search Reference

Dataset Overview

The Panasonic product dataset contains 168 products across 9 different categories. Each product has the following attributes:

- Product ID: Unique identifier for each product
- Category: Product classification (e.g., Televisions, Audio, Refrigerators)
- Title: Detailed product name with key specifications
- Price: Cost in Indian Rupees (₹)
- Image URL: Link to product image
- Key Features: Comma-separated list of product highlights
- Specifications: JSON format (currently empty for most products)
- Product URL: Link to product page

Product Categories Distribution

The dataset includes 9 product categories with the following distribution:

- **AC**: 38 products (22.6% of catalog)
- **Cameras**: 33 products (19.6% of catalog)
- **Refrigerators**: 20 products (11.9% of catalog)
- **Small Appliances**: 17 products (10.1% of catalog)
- **Televisions**: 16 products (9.5% of catalog)
- **Washing Machines**: 16 products (9.5% of catalog)
- **Accessories**: 12 products (7.1% of catalog)

- **Audio**: 8 products (4.8% of catalog)
- **Microwave Ovens**: 8 products (4.8% of catalog)

Additional Product Lines and Categories

In addition to the 9 main product categories in the dataset, Panasonic offers a wider range of products that may be relevant for a comprehensive understanding:

Camera Line Details (LUMIX Series)

The Cameras category in the dataset (33 products) consists of LUMIX cameras, which can be further classified into:

1. **LUMIX S Series** - Full-Frame Mirrorless
   - Professional-grade models with L-mount lens compatibility
   - Models like S1, S5II, S9 with different resolutions and features

2. **LUMIX G Series** - Micro Four Thirds
   - Smaller sensor cameras with excellent portability
   - Includes photography-focused G9/G9II and video-centric GH5/GH6/GH7

3. **LUMIX FZ Series** - Bridge Cameras
   - Fixed-lens cameras with powerful zoom capabilities
   - All-in-one solutions with various zoom ranges

4. **LUMIX Compact Cameras**
   - Premium compact models (LX series)
   - Travel zoom models (TZ series)

Additional Business and Consumer Categories

Panasonic also manufactures products in these categories (not in the current dataset):

1. **Personal Care**
   - Shavers and trimmers
   - Hair care appliances
   - Oral care products

2. **Professional Equipment**
   - Broadcasting and professional video
   - Security systems
   - Professional displays

3. **Home Entertainment**
   - Blu-ray and DVD players
   - Home theater systems
   - Gaming speakers

4. **Energy Solutions**
   - Solar panels
   - Energy storage systems
   - Power management solutions

5. **Automotive Products**
   - In-vehicle entertainment
   - Navigation systems
   - Advanced driving assistance systems

Price Ranges by Category

Understanding price ranges helps in filtering products by budget:

Category	Min Price (₹)	Max Price (₹)	Average Price (₹)	Product Count
Cameras	17,247	249,156	124,793	33
Televisions	15,990	239,990	72,928	16
AC	30,990	67,990	44,740	38
Refrigerators	27,990	71,990	39,991	20
Washing Machines	8,990	32,990	18,284	16
Audio	8,066	32,990	16,492	8
Microwave Ovens	5,890	17,790	11,160	8
Small Appliances	1,090	12,750	5,726	17
Accessories	153	1,600	708	12

Detailed Category Attribute Tables

1. Air Conditioners (38 Products)

Attribute	Value Range	Hot Keywords for Search
Capacity	0.9 Ton (100-120 sq ft) 1.0 Ton (100-140 sq ft) 1.4 Ton (140-180 sq ft) 1.5 Ton (150-190 sq ft) 2.0 Ton (180-240 sq ft) 2.2 Ton (220-280 sq ft)	room size, small room AC, medium room AC, large room AC, apartment cooling, bedroom AC, living room AC, hall AC, sq ft coverage, hall cooling
Energy Rating	3 Star (60.5%) 4 Star (13.2%) 5 Star (26.3%)	energy efficient, power saving, low electricity bill, eco mode, low running cost, economical, power consumption, energy saver
Type	Split AC, Smart Split AC, Hot & Cold	wall mounted, split unit, hot & cold, all season, cooling heating, dual function, year round comfort
Condenser	Copper	rust-proof, durable condenser, long-lasting, coastal area AC, humid climate, high durability
Special Features	7-in-1 Convertible True AI Mode Wi-Fi Connectivity PM 0.1 Filter	convertible AC, variable cooling, power adjustment, cooling modes, customizable cooling, intelligent cooling
Swing Type	2-Way Swing, 4-Way Swing	uniform cooling, even temperature, corner to corner, whole room cooling, wide angle airflow
Smart Features	Miraie App Control Voice Assistant Compatibility Matter Certified (select models)	smart home, remote operation, phone controlled, work from home, voice command, hands-free control, Google Assistant, Alexa, IoT
Air Purification	PM 0.1 Filter Ag Clean Plus Air Purification Filter	clean air, anti-dust, anti-bacterial, air purifying, allergy protection, asthma

Attribute	Value Range	Hot Keywords for Search
		friendly, pollution control, dust removal
Price Range	₹30,990 - ₹67,990	budget AC, affordable cooling, premium AC, luxury cooling, cost-effective, best value, high-end cooling solution
Model Year	2024, 2025	latest model, new technology, current generation, advanced features, newest version
Refrigerant	R32 (Environment Friendly)	eco-friendly, green refrigerant, zero ODP, ozone safe, environmentally conscious
Color	White	classic color, neutral design, matches decor, elegant look

2. Televisions (16 Products)

Attribute	Value Range	Hot Keywords for Search
Size	32 inches (12.5%) 43 inches (31.3%) 55 inches (31.3%) 65 inches (18.7%) 75 inches (6.2%)	small TV, medium TV, large TV, wall-sized, compact TV, apartment TV, bedroom TV, living room TV, theater-like, immersive viewing
Resolution	Full HD (1080p) 4K Ultra HD	crisp display, sharp image, movie quality, cinema experience, crystal clear, HD movies, Ultra HD streaming, 4K content, lifelike clarity
Display Technology	4K Studio Color Engine 4K Color Engine Hexa Chroma Drive	vibrant colors, true colors, bright display, deep blacks, color accuracy, film mode, cinema mode, rich colors, realistic skin tones
HDR Support	HDR 10, HDR 10+	high dynamic range, contrast enhancement, bright highlights, shadow detail, realistic lighting, expanded color
Smart Platform	Google TV Smart TV	streaming TV, Netflix TV, Amazon Prime TV, YouTube ready, internet TV, web browsing TV, screen mirroring, cast from phone
Audio Technology	Dolby Digital Audio Booster+	rich sound, theater sound, deep bass, clear dialogue, surround sound experience, loud volume, distortion-free audio, concert-like sound
Smart Features	Google Voice Assistant Chromecast Built-in	voice search, hands-free control, search by speaking, content casting, phone to TV, wireless display, screen sharing
Design	Slim Bezel, Bezel-less	edge-to-edge display, borderless design, frameless look, modern design, sleek

Attribute	Value Range	Hot Keywords for Search
		appearance, contemporary style
Connectivity	HDMI, USB, Bluetooth, Wi-Fi	multiple devices, gaming console, sound bar connection, wireless headphones, external storage, media playback
Color	Black	classic design, elegant appearance, matches decor, stylish look
Price Range	₹15,990 - ₹239,990	budget TV, affordable entertainment, premium viewing, luxury display, value-for-money, family entertainment, home theater setup
Model Series	MX Series (MX660DX, MX740DX) MS Series (MS550DX, MS660DX)	premium series, mid-range series, feature-rich model, entry-level series

3. Refrigerators (20 Products)

Attribute	Value Range	Hot Keywords for Search
Capacity	260L (5.0%) 280L (20.0%) 309L (35.0%) 338L (20.0%) 400L (10.0%) 450L (10.0%)	small fridge, compact refrigerator, family size, large capacity, spacious fridge, bachelor fridge, family refrigerator, multi-door
Energy Rating	2 Star (40.0%) 3 Star (60.0%)	low power consumption, electricity saver, economical operation, power efficient, eco friendly, green technology, environment friendly
Door Configuration	Double Door Bottom Mount	freezer on top, freezer on bottom, dual zone cooling, separate compartments, optimized storage, easy access design
Compressor Technology	6-Stage Intelligent Inverter Compressor	adaptive cooling, variable speed, quiet operation, energy saving compressor, smart cooling, temperature sensing
Defrosting	Frost-Free	no defrosting, auto defrost, ice buildup prevention, maintenance-free, convenience feature, time-saving
Vegetable Storage	35L Jumbo Vegetable Box	vegetable storage, fruit keeper, produce freshness, crisper drawer, humidity controlled, garden fresh, extended shelf life
Shelf Material	Toughened Glass (100KG Load Bearing)	durable shelves, heavy load capacity, spill-proof, easy cleaning, adjustable height, flexible storage
Warranty	1+10 years (1 year comprehensive, 10 years on compressor)	long-term protection, peace of mind, quality assurance, decade coverage, compressor guarantee, reliable performance

Attribute	Value Range	Hot Keywords for Search
Special Features	Prime Convertible AI Econavi	convertible freezer, flexible storage, intelligent cooling, smart temperature, adaptive settings, custom modes
Color Options	Shining Silver Diamond Black Electric Grey Mirror Glass	premium finish, fingerprint resistant, kitchen decor matching, elegant design, modern look, sleek appearance
Price Range	₹27,990 - ₹71,990	budget refrigerator, premium cooling, luxury refrigerator, affordable storage, family fridge, advanced cooling solution
Model Year	2022, 2023	latest model, current generation, newest features, updated design, fresh technology

4. Washing Machines (16 Products)

Attribute	Value Range	Hot Keywords for Search
Capacity	5 Kg (18.8%) 6 Kg (6.2%) 7 Kg (37.5%) 8 Kg (12.5%) 10 Kg (18.8%) 12 Kg (6.2%)	small family washer, bachelor washing machine, large family laundry, heavy load washer, bulk washing, bedding washer, comforter washing
Energy Rating	5 Star (100%)	energy efficient, power saving, low electricity, eco-friendly, green appliance, utility bill reduction, economical operation
Type	Fully-Automatic	time-saving, convenience appliance, easy washing, no manual intervention, set and forget, busy lifestyle, working professional
Loading Type	Top Load (87.5%) Front Load (12.5%)	space saving, water efficient, gentle washing, fabric care, quick loading, easier loading, stain removal, accessible design
Wash Programs	Up to 15 Wash Programs Stain Genius (50+ stains) Customized Programs (up to 672)	cotton wash, delicate wash, quick wash, heavy duty, jeans wash, baby clothes, woolen wash, silk wash, bedding program, curtain wash
Drying Technology	Drynamic Spin (up to 20% faster drying)	quick dry, efficient spinning, time-saving, moisture removal, faster laundry completion, ready-to-wear, shorter drying time
Smart Features	Miraie WiFi Connectivity Wash Wizard Customized wash programs	remote control wash, start from office, scheduled washing, smartphone controlled, voice control, intelligent washing, guided operation
Cleaning Technology	Active Foam Wash Technology Smart Built-in Heater 99.99% bacteria removal	stain removal, sanitize wash, germ kill, deep clean, thorough cleaning, hot wash, hygiene wash, allergy care, sensitive skin

Attribute	Value Range	Hot Keywords for Search
Special Programs	Steam Care Baby Care	wrinkle removal, refresh cycle, gentle baby clothes, sensitive skin protection, allergen removal, fabric care, delicate washing
Warranty	2 years comprehensive 5-10 years on motor	long-term protection, motor guarantee, quality assurance, durability promise, reliable performance, worry-free operation
Color	Charcoal Inox Grey Dark Silver	premium finish, fingerprint resistant, modern look, stylish design, contemporary appearance, elegant color, laundry room decor
Price Range	₹8,990 - ₹32,990	budget washer, affordable laundry, premium washing machine, value for money, cost-effective, durable machine, long-lasting washer
Motor	Heavy Duty Motor	powerful performance, quiet operation, long-lasting motor, durable build, robust construction, reliable engineering

5. Cameras (33 Products)

Attribute	Value Range	Hot Keywords for Search
Camera Type	Mirrorless MFT Mirrorless Full-Frame	lightweight camera, professional camera, content creation, vlogging camera, travel photography, street photography, filmmaking
Sensor Size	Micro Four Thirds (MFT) Full-Frame	crop sensor, full frame quality, sensor size, image quality, low light performance, dynamic range, bokeh capability
Resolution	16MP (3.0%) 24.2MP (21.2%) 25MP (6.1%)	high resolution, detailed images, large prints, portrait quality, landscape detail, commercial photography, sharp images
Lens Mount	L-Mount Micro Four Thirds	lens ecosystem, interchangeable lenses, wide angle lens, telephoto lens, zoom lens, prime lens, macro lens, portrait lens
Video Capabilities	4K 60p C4K FHD 280p 10-bit recording	video production, cinematic video, slow motion, film-like footage, YouTube quality, content creation, professional filming
Auto Focus	Phase Detection Tracking AF Subject Detection	action photography, sports photography, wildlife shooting, bird photography, moving subjects, fast focusing, eye detection
Burst Shooting	Up to 75 FPS (AFS) 60 FPS (AFC)	action capture, sports photography, wildlife moments, decisive moment, continuous shooting, sequence photography, rapid shooting
Special Features	Weather Sealing IBIS (up to 8-stop) High Resolution Mode (up to 100MP)	outdoor photography, stabilized video, handheld shooting, low light photography, night shooting, tripod-free, adventure photography
Weather Protection	Weather-Sealed Construction	outdoor shooting, rain protection, dust resistance, rugged camera, adventure photography, all-

Attribute	Value Range	Hot Keywords for Search
		weather shooting, travel durability
Color	Black, Silver	professional look, classic design, discreet appearance, elegant finish, traditional camera color
Price Range	₹17,247 - ₹249,156	entry-level camera, prosumer camera, professional camera, hobbyist photography, semi-professional, budget friendly, high-end camera
Special Modes	High Resolution Mode Real Time LUT	landscape detail, commercial quality, color grading, film look, cinema style, professional color, post-production settings

6. Small Appliances (17 Products)

Attribute	Value Range	Hot Keywords for Search
Appliance Type	Vacuum Cleaner Trimmer Iron Blender Rice Cooker	home cleaning, grooming tools, kitchen gadgets, household helpers, daily use appliances, convenience tools, cooking appliance
Dust Capacity	2.2L, 18L (Vacuum Cleaners)	high capacity cleaning, large dust bin, whole house vacuum, extended cleaning, fewer emptying, continuous operation
Filter Type	HEPA Anti-Bacterial Copper Fabric Infused	dust allergy, pet hair removal, allergen control, air purification, clean exhaust, asthma friendly, allergy protection
Design Features	Compact Lightweight Waterproof	easy storage, portable appliance, space-saving design, travel friendly, bathroom use, shower safe, wet environment
Operation	Corded Cordless Rechargeable	power-free operation, battery operated, cable-free, unrestricted movement, flexible use, anywhere operation
Special Features	Wet & Dry Usage 2-in-1 4-in-1 Functionality	versatile use, multi-purpose tool, all-in-one solution, multiple function, adaptable appliance, convertible design
Accessories	Cleaning Brush Crevice Nozzle Dusting Brush Trimmer Heads Shaver Heads	complete kit, accessory pack, versatile attachments, specialized

Attribute	Value Range	Hot Keywords for Search
		tools, custom applications, multi-surface cleaning
Power Source	Battery (AA) Rechargeable Battery Electric	battery life, charging time, power duration, cordless operation, outlet-free, portable power, travel friendly
Precision	0.2mm trimming (Trimmers)	precision cutting, detailed grooming, accurate trimming, fine detail, controlled styling, exact length, customizable trim
Charging Time	8 Hours (for rechargeable models)	overnight charging, battery readiness, usage cycle, power management, operation planning, usage time
Color	Blue, Green, Black, White (varies by product)	color preference, decor matching, personal style, visual appeal, design aesthetic, contemporary look
Price Range	₹1,090 - ₹12,750	budget appliance, affordable tool, value for money, cost-effective, everyday use, basic appliance, premium small appliance

7. Audio (8 Products)

Attribute	Value Range	Hot Keywords for Search
Speaker Configuration	2.1Ch (25.0%) 5.1Ch (75.0%)	home theater, surround sound, immersive audio, cinema sound, speaker system, music system, entertainment setup
Power Output	160W (25.0%) 400W (37.5%) 600W (37.5%)	powerful audio, loud sound, party speakers, concert-like, room-filling sound, bass-heavy, distortion-free, high volume
Connectivity	Bluetooth HDMI AUX Wireless Surround	wireless music, TV sound, phone connection, multiple device, streaming audio, smart connectivity, cable free setup
Controls	Remote Control Touch Control	distance operation, convenient control, easy adjustment, intuitive interface, accessible functions, user friendly
Sound Features	Deep Bass Dolby Digital Plus 3D Surround Sound	rich bass, movie sound effects, clear vocals, balanced audio, cinema experience, music clarity, sound separation
Speaker Type	Wireless Surround Soundbar Systems	cable-free setup, clean installation, minimalist audio, space-saving sound, flexible positioning, easy arrangement
Design Features	Metal Grille Touch Panel	premium appearance, quality construction, durable build, elegant finish, sophisticated look, contemporary design

Attribute	Value Range	Hot Keywords for Search
Color	Black	classic look, matches equipment, versatile color, home theater aesthetic, blends with decor
Price Range	₹8,066 - ₹32,990	budget audio, affordable sound system, premium speakers, entry-level home theater, audiophile quality, value sound system
Model Series	SC-HTS Series (SC-HTS600GWK, SC-HTS400GWK, SC-HTS160GWK)	model comparison, feature differences, series upgrade, technology level, performance tier, audio lineup

8. Microwave Ovens (8 Products)

Attribute	Value Range	Hot Keywords for Search
Capacity	20L (37.5%) 23L (25.0%) 27L (37.5%)	small microwave, compact oven, family size, large capacity, apartment oven, countertop microwave, space-saving design
Type	Convection	baking microwave, grilling oven, multi-function cooking, versatile cooking, all-in-one appliance, complete cooking solution
Cooking Functions	Grill Bake Cook Defrost Reheat	baking oven, grilling microwave, cake baking, pizza making, bread baking, auto cooking, preset recipes, roast function
Auto Cook Menus	61, 121, 137 Auto Cook Menus	preset recipes, one-touch cooking, auto chef, programmed cooking, recipe memory, gourmet settings, specialized cooking
Special Features	360° Heat Wrap Magic Grill Zero Oil	healthy cooking, fast cooking, even heating, no hot spots, crispy grilling, oil-free cooking, diet cooking, quick meals
Family Size	Suitable for 2-4 family members	small family, couple cooking, family meals, appropriate size, right capacity, household size, serving capacity
Warranty	1 Year on Product 5 Years on Magnetron	component protection, long-term guarantee, quality assurance, repair

Attribute	Value Range	Hot Keywords for Search
		coverage, parts warranty, service commitment
Color/Design	Black Floral Black Mirror Black Mirror + Golden	kitchen decor, stylish microwave, modern kitchen, elegant design, premium look, designer appliance, aesthetic appeal
Price Range	₹5,890 - ₹17,790	budget microwave, affordable cooking, value microwave, premium oven, cost-effective cooking, entry-level, high-end convection
Model Series	NN-CT Series (NN-CT35MBFDG, NN-CT353BFDG, NN-CT64HBFDG)	model lineup, feature comparison, series differences, technology levels, cooking capabilities, premium features
Health Features	Zero Oil Recipes Nutritive cooking options	diet friendly, healthy cooking, low calorie, nutrition preservation, wholesome meals, health conscious, calorie control

9. Accessories (12 Products)

Attribute	Value Range	Hot Keywords for Search
Accessory Type	Liquid Fabric Detergent AC Dust Cover Wall Mounting Bracket	laundry care, appliance protection, installation accessories, cleaning solutions, maintenance products, hardware support
Compatibility	Compatible with all washers Fits 1-1.5 Ton AC Universal fitting	universal use, multi-brand compatible, fits all models, standard size, adjustable mount, flexible use, versatile accessory
Volume/Capacity	1000 ml (detergent)	bulk purchase, long-lasting supply, value pack, economic size, multi-wash, month supply, large bottle
Material	Polyester Fabric Powder Coated Metal	durable material, weather resistant, long lasting, industrial grade, robust construction, quality material, fade resistant
Special Features	Stain Removal Dust & Water Protection Load Bearing	tough stains, gentle fabric care, outdoor protection, weather shield, monsoon protection, weight support, sturdy mount
Application	Safe for silk/woollen/delicates Top/front loader compatible Outdoor units	fabric safety, gentle cleaning, versatile application, multi-purpose, adaptable use, flexible application
Durability	Long-lasting Highly Durable	extended lifespan, quality construction, weather resistant, UV protection, fade resistant, tear resistant, robust design
Price Range	₹153 - ₹1,600	economical accessory, affordable addition, essential accessory, value

Attribute	Value Range	Hot Keywords for Search
		addition, cost-effective, budget friendly
Maintenance Benefits	Reduces maintenance cost Prolongs appliance life	cost savings, efficiency improvement, performance enhancement, extended lifespan, operational benefits, maintenance reduction
Installation Type	Wall Mounting Direct application	DIY installation, easy setup, professional quality, quick installation, no tools needed, straightforward application
Brand Compatibility	Works with most popular AC brands	universal fit, multi-brand support, generic accessory, widely compatible, brand-independent, versatile fitting

Attribute Value Distribution Analysis

AC Tonnage Distribution

Tonnage	Count	Percentage	Price Range (₹)
0.9 Ton	1	2.6%	~35,000
1.0 Ton	9	23.7%	30,990 - 45,990
1.4 Ton	1	2.6%	~40,000
1.5 Ton	17	44.7%	32,990 - 55,990
2.0 Ton	8	21.1%	39,990 - 67,990
2.2 Ton	2	5.3%	45,990 - 55,990

TV Size Distribution

Screen Size	Count	Percentage	Price Range (₹)
32 inches	2	12.5%	15,990 - 19,990
43 inches	5	31.3%	25,990 - 39,990
55 inches	5	31.3%	45,990 - 85,990
65 inches	3	18.7%	95,990 - 179,990
75 inches	1	6.2%	239,990

Refrigerator Capacity Distribution

Capacity	Count	Percentage	Price Range (₹)
260L	1	5.0%	27,990
280L	4	20.0%	28,990 - 32,990
309L	7	35.0%	29,990 - 36,990
338L	4	20.0%	33,990 - 39,990
400L	2	10.0%	45,990 - 56,990
450L	2	10.0%	57,990 - 71,990

Washing Machine Capacity Distribution

Capacity	Count	Percentage	Price Range (₹)	Loading Type
5 Kg	3	18.8%	8,990 - 12,990	Top Load
6 Kg	1	6.2%	13,990	Top Load
7 Kg	6	37.5%	14,990 - 23,990	4 Top Load, 2 Front Load
8 Kg	2	12.5%	17,990 - 25,990	Top Load
10 Kg	3	18.8%	24,990 - 29,990	Top Load
12 Kg	1	6.2%	32,990	Top Load

Loading Type Distribution in Washing Machines

Loading Type	Count	Percentage	Capacity Range
Top Load	14	87.5%	5 Kg - 12 Kg
Front Load	2	12.5%	7 Kg

Energy Rating Distribution

AC Energy Rating

Star Rating	Count	Percentage	Price Range (₹)
3 Star	23	60.5%	30,990 - 50,990
4 Star	5	13.2%	39,990 - 60,990
5 Star	10	26.3%	42,990 - 67,990

Refrigerator Energy Rating

Star Rating	Count	Percentage	Price Range (₹)
2 Star	8	40.0%	30,790 - 71,990
3 Star	12	60.0%	27,990 - 56,990

Washing Machine Energy Rating

Star Rating	Count	Percentage
5 Star	16	100.0%

Microwave Oven Capacity Distribution

Capacity	Count	Percentage	Price Range (₹)
20L	3	37.5%	5,890 - 8,590
23L	2	25.0%	9,990 - 11,500
27L	3	37.5%	14,990 - 17,790

Camera Resolution Distribution

Resolution	Count	Percentage	Price Range (₹)	Sensor Type
16MP	1	3.0%	17,247	MFT
24.2MP	7	21.2%	119,990 - 149,990	Full-Frame
25MP	2	6.1%	170,419 - 195,990	MFT
Other/Unspecified	23	69.7%	89,990 - 249,156	Various

Audio Power Output Distribution

Power Output	Count	Percentage	Price Range (₹)	Configuration
160W	2	25.0%	8,066 - 10,990	2.1Ch
400W	3	37.5%	12,990 - 17,990	5.1Ch
600W	3	37.5%	22,990 - 32,990	5.1Ch

Price Distribution Overview

Price Range (₹)	Number of Products	Percentage
< 5,000	13	7.7%
5,000 - 9,999	9	5.4%
10,000 - 19,999	24	14.3%
20,000 - 29,999	33	19.6%
30,000 - 49,999	49	29.2%
50,000 - 99,999	18	10.7%
100,000 - 199,999	17	10.1%
≥ 200,000	5	3.0%

Smart Features Distribution

Product Category	Wi-Fi/Smart Features Count	Percentage within Category
AC	28	73.7%
Televisions	12	75.0%
Washing Machines	9	56.3%
Refrigerators	6	30.0%
Cameras	8	24.2%

Category-Specific Search Keywords

6. Room/Space-Based Search

Search based on intended use location:

- Example: "Bedroom AC" or "Living room TV"

- Example: "Small kitchen microwave" or "Family size refrigerator"

Example path: "Bedroom AC" → 150 sq ft → Inverter → Sleep mode

7. Capacity-Based Search

Filter by capacity needs across applicable categories:

- Example: "7 Kg washing machine for 3-4 member family"
- Example: "1.5 ton AC for 180 sq ft room"

Example path: "400L refrigerator" → Double door → Frost-free → 3 Star

8. Usage Scenario Search

Look for products based on specific use cases:

- Example: "Vlogging camera with 4K" or "Party speakers with deep bass"
- Example: "Air purifying AC for allergy" or "Stain removal washing machine"

Example path: "Cake baking microwave" → Convection → 27L → Auto menu

Best Practices for Product Retrieval

1. **Use Standardized Terminology**
   - Follow the attribute naming patterns found in product titles
   - Use exact specification values (e.g., "7 Kg" instead of "7kg" or "7 kilograms")
   - Include model series where relevant (e.g., "MX Series TV")

2. **Leverage Title Structure**
   - Product titles follow consistent patterns within categories
   - Key specifications appear in a predictable order in titles
   - Size/capacity typically appears first, followed by other key specs

3. **Utilize Key Features for Detailed Filtering**
   - Key Features contain detailed specifications not always in titles

- Can be used for more granular filtering (e.g., "Toughened Glass Shelves")
- Search for specific technologies (e.g., "Drynamic Spin", "Hexa Chroma Drive")

4. **Consider Price-Quality Correlation**
- Higher-priced items typically have more advanced features
- Different categories have different price-feature relationships
- Premium features (WiFi, smart functions) are more common in higher price brackets

5. **Category-Specific Search Tips**
- **Televisions**: Focus on size (32/43/55/65/75 inches), resolution, and smart features
- **Refrigerators**: Capacity (260L-450L), door type, and energy rating are key
- **AC**: Tonnage (0.9/1.0/1.4/1.5/2.0/2.2 Ton), energy rating, and special features matter most
- **Cameras**: Sensor type, resolution (16MP/24.2MP/25MP), and video capabilities
- **Washing Machines**: Capacity (5/6/7/8/10/12 Kg), loading type (14 Top Load vs 4 Front Load), and wash programs
- **Audio**: Speaker configuration and output power are primary filters
- **Microwave Ovens**: Capacity (20L/23L/27L) and cooking functions are distinguishing factors
- **Small Appliances**: Function and special features vary widely
- **Accessories**: Compatibility with main products is crucial

6. **Combine Multiple Search Methods**
- Start broad, then narrow down with filters
- Use both technical specifications and benefit-oriented terms
- Combine price filtering with feature requirements
- Consider room size/usage scenario alongside technical specs cost savings, appliance life extension, performance enhancement, efficiency improvement, convenience addition, protection level

- **Compatibility Terms**: universal fit, multi-brand support, size specific, tonnage compatible, model specific, general application

- **Application Terms**: laundry care, outdoor unit protection, wall mounting installation, bracket stability, weather shield, monsoon cover

Most Common Color Options

Product Category	Primary Color	Secondary Colors
AC	White	-
Televisions	Black	-
Refrigerators	Diamond Black	Shining Silver, Electric Grey
Washing Machines	Charcoal Inox Grey	Dark Silver
Cameras	Black	Silver
Microwave Ovens	Black Mirror	Black Floral, Black Mirror + Golden

Effective Search Strategies

To find and retrieve products efficiently, consider the following search approaches:

1. Category-First Search

Start with product category, then narrow down by specific attributes:

- Step 1: Select category (e.g., "Televisions")

- Step 2: Filter by key attribute (e.g., "Size: 43 inches")

- Step 3: Refine by additional features (e.g., "Resolution: 4K")

Example path: Televisions → 55 inches → 4K → Smart Google TV → HDR 10+

2. Price-Based Search

Filter products by price range within a category:

- Step 1: Select category (e.g., "Refrigerators")
- Step 2: Set price range (e.g., "₹30,000 - ₹40,000")
- Step 3: Sort by price (ascending or descending)

Example path: Washing Machines → ₹15,000-₹20,000 → Sort by highest rating

3. Feature-Based Search

Search for products with specific features across all categories:

- Step 1: Search for key feature (e.g., "Inverter technology")
- Step 2: Filter results by category if needed
- Step 3: Compare products with similar features

Example path: "WiFi connectivity" → Filter by AC category → Sort by price

5. Combined Attribute Search

Use multiple attributes to narrow down options:

- Example: "5 Star" + "1.5 Ton" + "Wi-Fi" for AC products
- Example: "Front Load" + "7 Kg" + "Steam Care" for washing machines

Example path: 7 Kg + Front Load + Wifi + 5 Star (washing machine search)

6. Room/Space-Based Search

Search based on intended use location:

- Example: "Bedroom AC" or "Living room TV"
- Example: "Small kitchen microwave" or "Family size refrigerator"

Example path: "Bedroom AC" → 150 sq ft → Inverter → Sleep mode

7. Capacity-Based Search

Filter by capacity needs across applicable categories:

- Example: "7 Kg washing machine for 3-4 member family"
- Example: "1.5 ton AC for 180 sq ft room"

Example path: "400L refrigerator" → Double door → Frost-free → 3 Star

8. Usage Scenario Search

Look for products based on specific use cases:

- Example: "Vlogging camera with 4K" or "Party speakers with deep bass"
- Example: "Air purifying AC for allergy" or "Stain removal washing machine"

Example path: "Cake baking microwave" → Convection → 27L → Auto menu

Category-Specific Search Keywords

Small Appliances

- **Technical Search Terms**: motor power, battery life, charging time, filter type, suction power, blade material, heating element, temperature range
- **Function Terms**: multi-purpose tool, versatile appliance, quick operation, precision control, adjustable settings, customizable function
- **Convenience Terms**: easy cleaning, washable parts, compact storage, travel friendly, lightweight design, ergonomic grip, intuitive controls
- **Special Feature Terms**: low noise, energy efficient, detachable accessories, attachment variety, storage case, maintenance indicator

- **Usage Terms**: daily grooming, home cleaning, dust collection, allergen control, pet hair removal, beard trimming, body grooming

- **Design Terms**: cordless convenience, waterproof design, shower safe, wet/dry operation, bathroom use, kitchen suitable, living room friendly

Accessories

- **Technical Terms**: material composition, load capacity, compatibility range, installation requirements, dimensions, weight capacity

- **Utility Terms**: protection level, cleaning efficiency, ease of installation, space requirement, adjustability, flexibility, durability

- **Maintenance Terms**: cleaning frequency, replacement interval, service life, wear resistance, weather protection, corrosion resistance

- **Value Terms**: cost savings, appliance life extension, performance enhancement, efficiency improvement, convenience addition, protection level

- **Compatibility Terms**: universal fit, multi-brand support, size specific, tonnage compatible, model specific, general application

- **Application Terms**: laundry care, outdoor unit protection, wall mounting installation, bracket stability, weather shield, monsoon cover

Most Common Color Options

Product Category	Primary Color	Secondary Colors
AC	White	-
Televisions	Black	-
Refrigerators	Diamond Black	Shining Silver, Electric Grey
Washing Machines	Charcoal Inox Grey	Dark Silver
Cameras	Black	Silver
Microwave Ovens	Black Mirror	Black Floral, Black Mirror + Golden

- **Resolution Terms**: 4K display, Ultra HD, Full HD, 1080p, clarity, sharpness, pixel density, upscaling capability

- **Size-specific Terms**: 32-inch compact, 43-inch mid-size, 55-inch family, 65-inch theater, 75-inch premium, wall-sized, apartment TV

Refrigerators

- **Technical Search Terms**: cooling technology, defrost system, power consumption, dual cooling, multi-door, digital temperature control

- **Food Storage Terms**: vegetable freshness, fruit storage, dairy section, meat compartment, ice maker, water dispenser, bottle storage

- **Lifestyle Terms**: family refrigerator, bachelor fridge, kitchen centerpiece, compact cooling, food preservation, meal prep storage

- **Special Feature Terms**: convertible freezer, vacation mode, quick chill, door alarm, anti-bacterial coating, odor control, fingerprint resistant

- **Capacity Terms**: 260L small, 280L compact, 309L medium, 338L standard, 400L large, 450L family size, 2-person, 3-4 member family

- **Energy Terms**: 2 Star economy, 3 Star efficient, power saving, electricity bill reduction, green appliance, eco-friendly cooling size, bedding capacity

- **Loading Terms**: top load convenience, front load efficiency, easy access loading, water efficient, energy saving, space saving design

Cameras

- **Technical Search Terms**: sensor size, crop factor, lens mount, EVF resolution, buffer capacity, dynamic range, color depth, ISO performance

- **Photography Terms**: portrait camera, landscape shooter, macro photography, wildlife tracking, night photography, street shooting, travel camera

- **Video Terms**: documentary filming, YouTube camera, vlogging setup, interview shooting, cinematic look, slow motion capture, time-lapse

- **Professional Terms**: professional grade, studio quality, commercial photography, wedding camera, event coverage, product photography

- **Resolution Terms**: 16 megapixel budget, 24MP full-frame, 25MP high detail, megapixel count, detail capture, large print capability

- **Feature Terms**: image stabilization, weather sealing, articulating screen, touch control, eye detection, animal tracking, vehicle tracking

Microwave Ovens

- **Technical Search Terms**: wattage, turntable size, control type, program count, pre-heat function, multi-stage cooking, cavity material

- **Cooking Terms**: baking microwave, grilling function, roasting capability, defrost setting, reheat mode, fermentation setting, steam cooking

- **Recipe Terms**: cake maker, pizza oven, bread baker, popcorn setting, auto cook menu, Indian cooking, international cuisine, dessert maker

- **Convenience Terms**: child lock, quick start, memory function, auto clean, odor removal, steam clean, easy maintenance, fingerprint resistant

- **Capacity Terms**: 20L compact, 23L standard, 27L family size, small kitchen, apartment size, family cooking, multi-serving capacity

- **Feature Terms**: convection capability, auto cooking programs, pre-programmed recipes, zero oil cooking, healthy options, quick meals

Audio Systems

- **Technical Search Terms**: frequency response, impedance, THD rating, audio format support, driver size, amplifier class, crossover setup

- **Sound Terms**: bass boost, mid-range clarity, vocal enhancement, treble adjustment, surround simulation, virtual 3D, sound field expansion

- **Usage Terms**: movie audio, music system, gaming sound, podcast listening, party speakers, outdoor audio, ambient sound, background music

- **Connectivity Terms**: multi-room audio, HDMI-ARC, optical input, Bluetooth range, NFC pairing, multi-device connection, wireless subwoofer

- **Configuration Terms**: 2.1 channel stereo, 5.1 channel surround, satellite speakers, soundbar setup, wireless rear speakers, powered subwoofer

- **Power Terms**: 160W starter system, 400W mid-range, 600W powerful, room-filling sound, party volume, distortion-free amplification

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- **Value Terms**: cost savings, appliance life extension, performance enhancement, efficiency improvement, convenience addition, protection level

- **Compatibility Terms**: universal fit, multi-brand support, size specific, tonnage compatible, model specific, general application

- **Application Terms**: laundry care, outdoor unit protection, wall mounting installation, bracket stability, weather shield, monsoon cover range (e.g., "₹30,000 - ₹40,000")

- Step 3: Sort by price (ascending or descending)

Example path: Washing Machines → ₹15,000-₹20,000 → Sort by highest rating

3. Feature-Based Search

Search for products with specific features across all categories:

- Step 1: Search for key feature (e.g., "Inverter technology")

- Step 2: Filter results by category if needed

- Step 3: Compare products with similar features

Example path: "WiFi connectivity" → Filter by AC category → Sort by price

4. Model Number Search

Direct search using exact model numbers for precise retrieval:

- Example: "TH-43MX660DX", "NR-TG321CUSN", "NA-F70CH3CRB"

Example path: "DC-G9M2LGW" (exact camera model)

5. Combined Attribute Search

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Example path: 7 Kg + Front Load + Wifi + 5 Star (washing machine search)

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Example path: "Cake baking microwave" → Convection → 27L → Auto menu

Best Practices for Product Retrieval

1. **Use Standardized Terminology**
   - Follow the attribute naming patterns found in product titles

   - Use exact specification values (e.g., "7 Kg" instead of "7kg" or "7 kilograms")

   - Include model series where relevant (e.g., "MX Series TV")

2. **Leverage Title Structure**
   - Product titles follow consistent patterns within categories

   - Key specifications appear in a predictable order in titles

   - Size/capacity typically appears first, followed by other key specs

3. **Utilize Key Features for Detailed Filtering**
   - Key Features contain detailed specifications not always in titles

   - Can be used for more granular filtering (e.g., "Toughened Glass Shelves")

   - Search for specific technologies (e.g., "Drynamic Spin", "Hexa Chroma Drive")

4. **Consider Price-Quality Correlation**

- Higher-priced items typically have more advanced features

- Different categories have different price-feature relationships

- Premium features (WiFi, smart functions) are more common in higher price brackets

5. **Category-Specific Search Tips**
   - **Televisions**: Focus on size (32/43/55/65/75 inches), resolution, and smart features

   - **Refrigerators**: Capacity (260L-450L), door type, and energy rating are key

   - **AC**: Tonnage (0.9/1.0/1.4/1.5/2.0/2.2 Ton), energy rating, and special features matter most

   - **Cameras**: Sensor type, resolution (16MP/24.2MP/25MP), and video capabilities

   - **Washing Machines**: Capacity (5/6/7/8/10/12 Kg), loading type (14 Top Load vs 4 Front Load), and wash programs

   - **Audio**: Speaker configuration and output power are primary filters

   - **Microwave Ovens**: Capacity (20L/23L/27L) and cooking functions are distinguishing factors

   - **Small Appliances**: Function and special features vary widely

   - **Accessories**: Compatibility with main products is crucial

6. **Combine Multiple Search Methods**
   - Start broad, then narrow down with filters

   - Use both technical specifications and benefit-oriented terms

   - Combine price filtering with feature requirements

   - Consider room size/usage scenario alongside technical specs