#### SPECIFICATIONS

Model name		CP-WU8450	CP-WU8440	CP-WX8255	CP-X8160					
Liquid crystal panel		0.76 type (inch), 1.9cm	0.76 type (inch), 1.9cm	0.75 type (inch), 1.9cm	0.8 type (inch), 2.0cm					
		polysilicon active-matrix TFT x 3	polysilicon active-matrix TFT x 3	polysilicon active-matrix TFT x 3	polysilicon active-matrix TFT x 3					
Number of pix	els	2,304,000 pixels (H1920 x V1200)	2,304,000 pixels (H1920 x V1200)	1,024,000 pixels (H1280 x V800)	786,432 pixels (H1024 x V768)					
Resolution		1920 x 1200 color pixels (WUXGA)	1920 x 1200 color pixels (WUXGA)	1280 x 800 color pixels (WXGA)	1024 x 768 color pixels (XGA)					
Motorized zoo	m	x2.0								
Lamp		330W UHP 245W UHP 330W UHP								
Light output (brightness)		5,000 Lumens	4,200 Lumens	5,500 Lumens	6,000 Lumens					
Contrast ratio		3,000:1 (Presentation mode)								
Audio			8W	x 2						
Keystone corre	ection	Auto Vertical Keystone								
Power supply		AC100-120V/AC220-240V								
Operating temperature		0-45°C (32-113°F)*	0-40°C (32-104°F)	0-45°C (32-113°F)*						
Input signals	Computer input		VGA, SVGA, XGA, WXGA, W	XGA+, SXGA, UXGA, MAC16"						
		WSXGA+	, WUXGA	WSXGA+	SXGA+					
	Video input	NTSC, NTSC4.43, PAL, SECAM, PAL-M, PAL-N, PAL (60Hz)								
		480i@60, 480p@60, 576i@50, 576p@50, 720p@50/60, 1080i@50/60, 1080p@50/60								
Input/output	Video input x 3	S-Video: Mini DIN 4 pin jack x 1, Composite video: RCA jack x 1, Component video: RCA jack x 3								
terminals	Audio input x 3	3.5mm (stereo) mini jack x 2, RCA jack x 2 (L/R)								
	Computer input x 2	Analog RGB: D-sub 15 pin mini jack x 1, BNC jack x 5								
	HDMI input x 2	HDMI connector x 2 (HDCP compliant)								
	Remote control intput	3.5mm (stereo) mini jack x 1								
	Audio output x 1	RCA jack x 2 (L/R)								
	Monitor output x 1	Analog RGB: D-sub 15 pin mini jack x 1								
	Remote control output	3.5mm (stereo) mini jack x 1								
	USB	USB type A connector x 2 (for PC-less presentation or wireless adapter), USB type B connector x 1 (for USB display or USB mouse control)								
	Control	D-sub 9 pin plug x 1 for RS232C								
	Wireless network	Option with USB wireless adapter (USB-WL-11N)								
	Wired network (LAN)	RJ45 jack x 1								
Agency certific		UL/cUL, FCC Part15 class A, AS/NZS CISPR22 class A, CE, GOST-R								
Dimensions (V	VxHxD)	498 x 135 x 396mm (19.6" x 5.3" x 15.6") [excluding protruding part]								
Weight		Approximately 8.7kg (19.2 lbs.) Approximately 8.5kg (18.7 lbs.) Approximately 8.7kg (19.2 lbs.)								
Standard accessories		Remote control (Part#: HL02801) with two AA batteries, Power cord, Computer cable, Lens cover,								
		User's manuals, Security label, Application CD, Adapter cover								
Optional accessories		Lamp: DT01291,	Lamp: DT01281,	Lamp: DT01291,						
		Filter set: UX38241,	Filter set: MU06642,	Filter set: UX38241,						
		USB wireless adapter: USB-WL-11N USB wireless adapter: USB-WL-11N USB wireless adapter: USB-WL-11N								

When the projector is used at night autitudes, even the or -2010. It is recommended to reduce the temperature as far as possible.

#### **DIMENSIONS**



#### **TERMINALS**



#### **Consideration for the Environment**

#### ■ Compliance with EU Directive RoHS\*1

\*1 ROHS is the acronym of "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on

#### ■ Reduction of resin usage in production

Use of hot runners in molds for making upper housing in order to reduce mill ends.

- Power saving mode engaged during standby
- Eco mode

Eco mode provides power saving.

- · Design and specifications are subject to change without notice.
- The projected images and comparison photos in this catalog are simulations.
   LCD panels, polarizers and other optical components and cooling fans may need replacement after prolonged usage. For more details, please consult a Hitachi
- Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction
- Do not use in places where there is a lot of water, dampness, steam, dust, soot or tobacco smoke. This may result in fire or malfunction.
   Optical components (lamp, LCD panel, polarizing plate, PBS [polarizer beam splitter]) have limited service lives. They must be repaired or replaced if they are used for a long period of time.
   These projectors use a mercury lamp with high internal pressure. Because of its properties, this lamp may burst with a loud noise or burn out if struck or after it has been used for a period of time. The time until it bursts or burns out varies greatly according to differences between lamps and usage conditions. Turning the lamp's power on and off frequently shortens its service life.
   Optical components other than the lamp: If the projector is used for six hours or more per day, they may need to be replaced in less than a year.
   LCD panel: If the projector is used continuously for six hours or more its replacement type may be shortened.

- Optical components other than the lamp: If the projector is used for six hours or more per day, they may need to be replaced in less than a year.
   LCD panel: If the projector is used continuously for six hours or more, its replacement cycle may be shortened.
   Do not turn projector on again for ten minutes after shutdown. Neglect can shorten the lifetime of the lamp. During use and immediately after use, do not touch anywhere near the lamp and the vents as these parts are extremely hot.
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Hitachi America, Ltd., Digital Media Division 900 Hitachi Way, Chula Vista, CA 91914-3556, U.S.A. and Canada Tel; +1-800-225-1741 www.hitachi-america.us/digitalmedia Hitachi Home Electronics Asia (S) Pte. Ltd. 438A Alexandra Road #01-01/02/03, Alexandra Technopark, 119967, Singapore Tel: +65-6536-2520 www.hitachiconsumer.com.sg Hitachi Sales (Malaysia) Sdn. Bhd. Lot 12, Jalan Kemajuan, Bangi Industrial Estate, 43650 Bandar Baru Bangi, Selangor Darul Ehsan, Malaysia

Hitachi Sales (Thailand), Ltd. 994, 996 Soi Thonglor, Sukhumvit 55 Road, Klongtonnua, Vadhana Bangkok 10110, Thailand
Hitachi (Hong Kong), Ltd. 18th Floor, Ever Gain Centre, 28 On Muk Street, Shatin, N.T., Hong Kong Tel: +852-2113-8883
Hitachi Sales Corp. of Taiwan 2nd Floor, No.65, Nanking East Road, Section 3, Taipei 104, Taiwan Tel: +886-2-2516-0500
Www.hitachi-hk.com.hk
Hitachi Australia Pty Ltd. Suite 801, Level 8, 123 Epping Road, North Ryde NSW 2113, Australia Tel: +61-2-9888-4100
Www.hitachi.com.au

Hitachi Europe Ltd., Digital Media Group Consumer Affairs Department Whitebrook Park, Lower Cookham Road, Maidenhead, Berkshire, SL6 8YA, UK

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pixelworks"

# **LCD Projectors**





#### **LCD Projectors**

CP-WU8450 WUXGA 5,000 Lumens CP-WU8440 WUXGA 4,200 Lumens CP-WX8255 WXGA 5,500 Lumens CP-X8160 XGA 6,000 Lumens







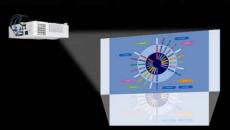
# Convenient and easy to use in conference halls and auditoriums



# **Greater Installation Flexibility**

## **Superior Lens Shift**

Superior Lens Shift lets you select the most convenient installation location in a large space.



## **Variety of Lens Options**

Three optional lenses are available in addition to the standard lens. You can choose the most appropriate lens for a wide range of projection distances.



# **360 Degree Installation**

CP-WU8450 CP-WX8255 CP-X8160

A major advantage that these projectors provide is 360-degree installation, making it possible to use them effectively in various types of spaces.



### **LCD Projectors**

CP-WU8450 WUXGA 5,000 Lumens

CP-WU8440 WUXGA 4,200 Lumens

CP-WX8255 WXGA 5,500 Lumens

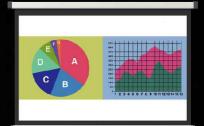
CP-X8160 XGA 6,000 Lumens

# **Superior Projection Technology**

# P by P Function

CP-WU8450 CP-WU8440

You can project two images on one screen at the same time. This is handy when you need to compare two sets of data or other material.



# **WUXGA High Resolution**

CP-WU8450 CP-WU8440

The CP-WU8450 and CP-WU8440 offer native resolution of WUXGA (1920 x 1200), which is even higher than full high-definition (1920 x 1080).



# Superior functionality found in a slim body design

Slim Design 135mm (5.3") Height Center Lens Design

8W + 8W Stereo Speakers

### Wireless Capability (Option)

You can use a wireless network by connecting the projector to a computer using the optional USB wireless adapter. The adapter supports IEEE802.11b/g/n.



The two HDMI inputs allow digital connection via a single cable, for video and audio from various types of equipment. You enjoy high picture quality and high sound quality for a wide range of uses.



#### **Status Monitor**

CP-WU8450 | CP-WX8255 | CP-X8160

The Status Monitor is a sub-LCD located on the rear panel of the CP-WU8450, CP-WX8255 and CP-X8160. It displays the present condition of the projector, including errors, setup information and error history.

#### ■ Real time monitoring

NO SIGNAL

- Lamp time
- · Filter time
- · Projector usage time
- · IP Address and others

#### ■ Error and alarm message



- Cover error
- · Lamp error
- · Temperature error
- · Filter cleaning time
- and others

#### **Perfect Fit**

Perfect Fit enables quick adjustment of the projected image by moving its four corners one at a time. In addition, barrel or pincushion distortion, which occur on rounded surfaces, can easily be corrected (only CP-WX8255 and CP-X8160)



#### **DICOM® Simulation Mode**

The DICOM (Digital Imaging and Communications in Medicine) Simulation Mode projects grayscale images which approximate DICOM Part 14 specifications. This mode is ideal for viewing grayscale medical images, such as X-rays, for training and educational purposes

 The projectors have a DICOM (Digital Imaging) Communications in Medicine) Simulation.

This mode simulates the DICOM lard, which is a standard applicable to







**LCD Projector** CP-WU8450 WUXGA 5,000 Lume





CP-WX8255 WXGA 5,500 Lumens

**LCD Projector** CP-X8160 XGA 6.000 Lu

CP-WU8440 WUXGA 4,200 Lumens

#### Advanced Network Functions\*1

### **Convenient Networking**

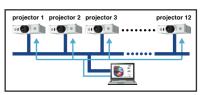
Embedded networking gives you the ability to manage and control multiple projectors over your LAN: Centralized Reporting, Scheduling, E-mail Alerts, and My Image (Image Transfer).



Centralized Reporting

#### Multi Projector\*2\*3

You can project the same image from up to 12\*4 projectors simultaneously. This is useful for meetings and lectures in large venues where a single screen would not be sufficient.



\*1 Video transfer through network may not be supported depending on combination of computer hardware and software. For projecting video sources, video/computer cable is preferable.
\*2 This function will be provided later by software update from the website http://www.hitachi-america.us/digitalmedia
\*3 To secure better performance, a wired network is preferable.
\*4 Video transfer speed may vary depending on number of projectors connected.

#### ■ Hardware and software requirements for network capability

OS: One of the following. Windows® XP Home Edition/Professional Edition (32 bit version only), Windows Vista® Home Basic/Home Premium/ Business/Ultimate/Enterprise, Windows® 7 Starter/Home Basic/Home Premium/Professional/Ultimate/Enterprise CPU: Pentium® 4 (2.8 GHz or higher) Graphic card: 16 bit, XGA or higher (When using the "LiveViewer" it is recommended that the display resolution of your computer be set to 1024 x 768.) Memory: 512 MB or higher Hard disk space: 100 MB or higher Web browser: Internet Explorer® 6.0 or higher CD-ROM drive

• If many computers are connected to the network or the connected computer is under excessive load, higher specifications may be required.

#### **Easy Maintenance**

Lamp door and filter cover are on both sides, facilitating maintenance and replacement when the projector is installed on the ceiling.

#### 3-Layer High Performance Filter

CP-WU8450 CP-WX8255 CP-X8160

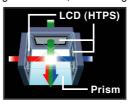
These projectors use a 3-layer high performance filter that has two layers of unwoven cloth and an HAF (high air flow) filter. It lasts up to 20,000 hours\* without cleaning, reducing maintenance time. (The CP-WU8440 filter has two layers of unwoven cloth and lasts 15,000 hours.\*) \* Varies according to usage environment



#### 3 LCD Panels with Inorganic **Alignment Layers**

These projectors incorporate three LCD panels with inorganic alignment layers that are extremely light resistant, increasing

brightness and contrast ratio. They ensure smooth images and high reliability



#### Easy-to-Use **Remote Control**

The remote control has four ID buttons. When operating multiple projectors at one time, each projector ID can be changed to prevent confusion. It also has an F5 button for starting presentations quickly, and Direct Input Source select buttons.



#### **Instant Stack**

Instant Stack lets you place one projector beside another to project the same image from both onto a screen for added brightness. Overlaying the image is made easier with built-in tools including RS-232C control, Perfect Fit and Lens Shift.

 When stacking projectors, there are various cautions and function limitations you should be aware of. Please ask your

#### **More Convenient Features**

- Mechanical SHADE Operating Altitude: 0-3,048m (0-10,000ft) Low Noise of 29dB\*1\*2 (Eco Mode) PC-Less Presentation
- Display via USB Template Function\*3 Closed Caption Auto Vertical Keystone Correction Compatible with AMX Device Discovery
- · Compatible with Crestron RoomView® · VESA Compatible Ceiling Mount Screw Holes
- \*1 Typical. Tested in 23°C environmental conditions. \*2 Applicable to CP-WU8440. Noise level in Eco Mode of the following models is 31dB: CP-WU8450, CP-WX8255, CP-X8160. \*3 Patent pending

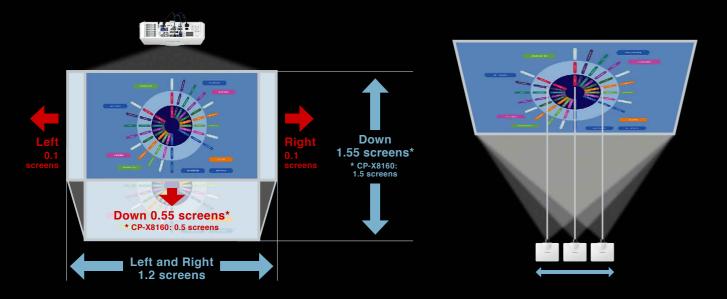
Projected images are simulations.



#### ■ Lens Shift and Motorized Lens

Lens Shift allows a broad installation area. The projectors can cover a total range of 1.2 screen areas horizontally and 1.55 screen (CP-WU8450/CP-WU8440/CP-WX8255)/1.5 screen (CP-X8160) areas vertically. With ceiling installation, they can shift left or right by 0.1 of the screen's width and down by 0.55 (CP-WU8450/CP-WU8440/CP-WX8255)/0.5 (CP-X8160) of the screen's height. This lens shift lets you install your projector within a wide area. In addition, with motorized settings including optical lens shift, zoom, and focus adjustments, you can adjust these settings from a distance by simply using the remote control.





### **■ Lens Memory**

Lens Memory lets you store up to three patterns of settings for lens shift position. This eliminates the need to make adjustments for settings, so you can quickly begin projection with the proper settings.

#### ■ 360 Degree Installation CP-WU8450 CP-WX8255 CP-X8160

With 360-degree vertical adjustment capability, these projectors offer superior installation flexibility. They can be installed on either the floor or ceiling of a store or event facility, ensuring maximum visibility of the projected images.





# 3 Optional Lenses and 1 Standard Lens

Middle throw ML-703









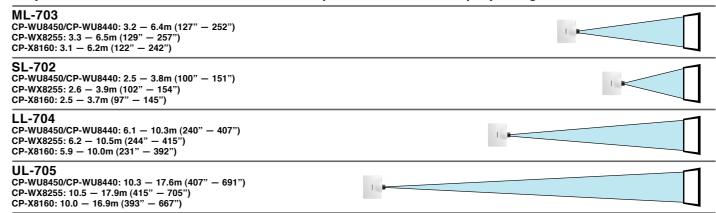




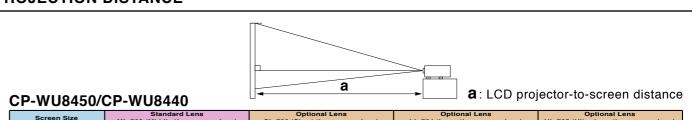


The projectors provide three optional lenses in addition to the standard lens, so you can use a wide range of installation environments. For example, by making use of four types of lenses, projection onto a 100" screen can achieved from a distance of anywhere from 2.5 to 17.6 meters (100" - 691") with the CP-WU8450/CP-WU8440, 2.6 to 17.9 meters (102" - 705") with the CP-WX8255, and 2.5 to 16.9 meters (97" - 667") with the CP-X8160, allowing them to easily match the available space.

#### Projection distances for standard lens and optional lenses when projecting onto a 100" screen.



#### **PROJECTION DISTANCE**



Screen Size	Standard Lens ML-703 (Middle throw zoom lens)		Optional Lens SL-702 (Short throw zoom lens)		Optional Lens LL-704 (Long throw zoom lens)		Optional Lens UL-705 (Ultra long throw zoom lens)	
(16:10 Screen)	a Min	a Max	a Min	a Max	a Min	a Max	a Min	a Max
30 type (inch), 0.8m	1.0m (38")	1.9m (76")	0.8m (31")	1.2m (46")	1.8m (72")	3.1m (121")	3.3m (130")	5.4m (214")
40 type (inch), 1.0m	1.3m (51")	2.6m (101")	1.0m (41")	1.5m (61")	2.4m (96")	4.1m (162")	4.3m (169")	7.2m (282")
60 type (inch), 1.5m	1.9m (76")	3.8m (151")	1.5m (60")	2.3m (91")	3.7m (144")	6.2m (243")	6.3m (248")	10.6m (418")
70 type (inch), 1.8m	2.3m (89")	4.5m (176")	1.8m (70")	2.7m (106")	4.3m (168")	7.2m (284")	7.3m (288")	12.4m (487")
80 type (inch), 2.0m	2.6m (101")	5.1m (202")	2.0m (80")	3.1m (121")	4.9m (192")	8.3m (325")	8.3m (328")	14.1m (555")
100 type (inch), 2.5m	3.2m (127")	6.4m (252")	2.5m (100")	3.8m (151")	6.1m (240")	10.3m (407")	10.3m (407")	17.6m (691")
120 type (inch), 3.0m	3.9m (152")	7.7m (302")	3.0m (120")	4.6m (181")	7.3m (287")	12.4m (489")	12.4m (486")	21.0m (828")
150 type (inch), 3.8m	4.8m (190")	9.6m (377")	3.8m (150")	5.7m (225")	9.1m (359")	15.5m (612")	15.4m (605")	26.2m (1033")
200 type (inch), 5.1m	6.4m (253")	12.8m (503")	5.1m (199")	7.6m (300")	12.2m (479")	20.7m (816")	20.4m (803")	34.9m (1374")
250 type (inch), 6.4m	8.0m (316")	16.0m (628")	6.3m (249")	9.5m (375")	15.2m (598")	25.9m (1021")	25.4m (1002")	43.6m (1715")
300 type (inch), 7.6m	9.6m (379")	19.1m (754")	7.6m (298")	11.4m (450")	18.2m (718")	31.1m (1226")	30.5m (1200")	52.2m (2056")
350 type (inch), 8.9m	11.2m (443")	22.3m (879")	8.8m (348")	13.3m (525")	21.3m (837")	36.3m (1430")	35.5m (1398")	60.9m (2398")
400 type (inch), 10.2m	12.8m (506")	25.5m (1005")	10.1m (397")	15.2m (600")	24.3m (957")	41.5m (1635")	40.5m (1596")	69.6m (2739")
500 type (inch), 12.7m	16.1m (632")	31.9m (1256")	12.6m (496")	19.0m (749")	30.4m (1196")	51.9m (2044")	50.6m (1993")	86.9m (3421")
600 type (inch), 15.2m	19.3m (758")	38.3m (1507")	15.1m (595")	22.8m (899")	36.4m (1435")	62.3m (2453")	60.7m (2389")	104.2m (4104")

#### CP-WY8255

Tolerance ±10% (for projection distance a) • Final specifications may vary slightly.

· Tolerance ±10% (for projection distance a) · Final specifications may vary slightly.

Carrage Sine	Standard Lens ML-703 (Middle throw zoom lens)		Optional Lens SL-702 (Short throw zoom lens)		Optional Lens LL-704 (Long throw zoom lens)		Optional Lens UL-705 (Ultra long throw zoom lens)	
Screen Size (16:10 Screen)								
	a Min	a Max	a Min	a Max	a Min	a Max	a Min	a Max
30 type (inch), 0.8m	1.0m (39")	2.0m (78")	0.8m (31")	1.2m (47")	1.9m (74")	3.1m (123")	3.3m (132")	5.5m (218")
40 type (inch), 1.0m	1.3m (52")	2.6m (103")	1.1m (41")	1.6m (62")	2.5m (98")	4.2m (165")	4.4m (172")	7.3m (287")
60 type (inch), 1.5m	2.0m (78")	3.9m (154")	1.6m (62")	2.4m (93")	3.7m (147")	6.3m (248")	6.4m (253")	10.8m (427")
70 type (inch), 1.8m	2.3m (91")	4.6m (180")	1.8m (72")	2.7m (108")	4.4m (171")	7.4m (290")	7.5m (294")	12.6m (496")
80 type (inch), 2.0m	2.6m (104")	5.2m (206")	2.1m (82")	3.1m (123")	5.0m (196")	8.4m (332")	8.5m (334")	14.4m (566")
100 type (inch), 2.5m	3.3m (129")	6.5m (257")	2.6m (102")	3.9m (154")	6.2m (244")	10.5m (415")	10.5m (415")	17.9m (705")
120 type (inch), 3.0m	3.9m (155")	7.8m (308")	3.1m (122")	4.7m (184")	7.4m (293")	12.7m (499")	12.6m (496")	21.4m (844")
150 type (inch), 3.8m	4.9m (194")	9.8m (385")	3.9m (153")	5.8m (230")	9.3m (366")	15.8m (624")	15.7m (617")	26.7m (1053")
200 type (inch), 5.1m	6.6m (259")	13.0m (513")	5.2m (203")	7.8m (306")	12.4m (488")	21.1m (833")	20.8m (819")	35.6m (1401")
250 type (inch), 6.4m	8.2m (323")	16.3m (641")	6.4m (254")	9.7m (383")	15.5m (610")	26.5m (1041")	25.9m (1021")	44.4m (1749")
300 type (inch), 7.6m	9.8m (388")	19.5m (769")	7.7m (304")	11.7m (459")	18.6m (732")	31.8m (1250")	31.1m (1224")	53.3m (2097")
350 type (inch), 8.9m	11.5m (452")	22.8m (897")	9.0m (355")	13.6m (535")	21.7m (854")	37.1m (1459")	36.2m (1426")	62.1m (2445")
400 type (inch), 10.2m	13.1m (517")	26.0m (1025")	10.3m (405")	15.5m (612")	24.8m (976")	42.4m (1668")	41.3m (1628")	71.0m (2793")
500 type (inch), 12.7m	16.4m (646")	32.5m (1281")	12.9m (506")	19.4m (764")	31.0m (1220")	53.0m (2085")	51.6m (2032")	88.6m (3490")
600 type (inch), 15.2m	19.7m (775")	39.0m (1537")	15.4m (607")	23.3m (917")	37.2m (1464")	63.6m (2502")	61.9m (2437")	106.3m (4186")

#### **CP-X8160**

Screen Size	Standard Lens ML-703 (Middle throw zoom lens)		Optional Lens SL-702 (Short throw zoom lens)		Optional Lens LL-704 (Long throw zoom lens)		Optional Lens UL-705 (Ultra long throw zoom lens)	
(4:3 Screen)								
	a Min	a Max	a Min	a Max	a Min	a Max	a Min	a Max
30 type (inch), 0.8m	0.9m (37")	1.9m (73")	0.8m (30")	1.1m (44")	1.8m (70")	2.9m (116")	3.2m (125")	5.2m (206")
40 type (inch), 1.0m	1.2m (49")	2.5m (97")	1.0m (39")	1.5m (59")	2.4m (93")	4.0m (156")	4.2m (163")	6.9m (272")
60 type (inch), 1.5m	1.9m (73")	3.7m (146")	1.5m (58")	2.2m (88")	3.5m (139")	6.0m (234")	6.1m (240")	10.2m (404")
70 type (inch), 1.8m	2.2m (86")	4.3m (170")	1.7m (68")	2.6m (102")	4.1m (162")	7.0m (274")	7.1m (278")	11.9m (469")
80 type (inch), 2.0m	2.5m (98")	4.9m (194")	2.0m (77")	3.0m (116")	4.7m (185")	8.0m (313")	8.0m (316")	13.6m (535")
100 type (inch), 2.5m	3.1m (122")	6.2m (242")	2.5m (97")	3.7m (145")	5.9m (231")	10.0m (392")	10.0m (393")	16.9m (667")
120 type (inch), 3.0m	3.7m (146")	7.4m (291")	2.9m (116")	4.4m (174")	7.0m (277")	12.0m (471")	11.9m (469")	20.3m (798")
150 type (inch), 3.8m	4.6m (183")	9.2m (363")	3.7m (144")	5.5m (217")	8.8m (346")	15.0m (589")	14.8m (584")	25.3m (996")
200 type (inch), 5.1m	6.2m (244")	12.3m (484")	4.9m (192")	7.4m (289")	11.7m (461")	20.0m (787")	19.7m (775")	33.6m (1324")
250 type (inch), 6.4m	7.7m (305")	15.4m (605")	6.1m (240")	9.2m (362")	14.6m (577")	25.0m (984")	24.5m (966")	42.0m (1653")
300 type (inch), 7.6m	9.3m (366")	18.4m (725")	7.3m (288")	11.0m (434")	17.6m (692")	30.0m (1181")	29.4m (1157")	50.3m (1982")
350 type (inch), 8.9m	10.8m (426")	21.5m (846")	8.5m (335")	12.8m (506")	20.5m (807")	35.0m (1378")	34.2m (1348")	58.7m (2311")
400 type (inch), 10.2m	12.4m (487")	24.6m (967")	9.7m (383")	14.7m (578")	23.4m (922")	40.0m (1576")	39.1m (1539")	67.1m (2640")
500 type (inch), 12.7m	15.5m (609")	30.7m (1209")	12.2m (478")	18.3m (722")	29.3m (1153")	50.0m (1970")	48.8m (1921")	83.8m (3298")
600 type (inch), 15.2m	18.6m (731")	36.8m (1450")	14.6m (574")	22.0m (866")	35.1m (1383")	60.1m (2364")	58.5m (2303")	100.5m (3956")