Turret Demo Scripts - Quick Start Guide

## Learning from the Demo Scene The fastest way to understand how everything works is to explore the included demo scene:

3. The Inspector panels for each turret show the recommended settings

2. This scene contains fully configured examples of each turret platform

1. Open Assets/Mythmatic\_Turret\_Mobile\_RTS/Scenes/DemoScene

1. Learn from the Demo

1. Open the demo scene

2. Basic Setup

3. Quick Configuration

2. Select a turret in the scene

3. Look at how components are connected in the Inspector

4. Use this as a template for your own setup

1. Drop your turret model into the scene

3. In the Inspector, you'll need to assign:

2. Add the TurretController script to your turret

Weapon Mount (the part that moves up/down)

scene - the turrets there show exactly which parts to use!

• Base Rotation Speed: How fast the turret turns left/right

• Weapon Rotation Speed: How fast the turret aims up/down

The most important settings you'll want to adjust first:

• Attack Range: How far the turret can see enemies

2. Tag it as "Enemy" (this is what the turret will target)

3. Hit Play - your turret should track and shoot at the enemy!

· Fire Rate: How fast the turret shoots

these and adjust to taste.

1. Add an object to your scene

"My turret setup doesn't look right!"

2. Find a turret similar to what you want

4. Copy settings from the demo to your turret

• Did you assign a Projectile Prefab in the inspector?

3. Compare your setup with the demo

· Is your enemy tagged as "Enemy"?

• Is the enemy within Attack Range?

Adjust the Fire Rate in the inspector:

• Higher numbers = faster shooting

• Lower numbers = slower shooting

"Can I use these scripts in my game?"

· Use them in your games

**Customization Guide** 

Adjusting Turret Behavior

Make it More Aggressive

Attack Range: 30 → 50

Projectile Speed: 20 → 30

Fire Rate: 1 → 2

Make it More Defensive

Attack Range: 30 → 15

Adding Visual Effects

**Technical Details** 

TurretController

Movement

Target tracking

Firing system

Animation

Key settings:

attackRange

HomingProjectile

Movement

Target tracking

Impact effects

Key settings:

csharp

speed

rotationSpeed

homingStrength

**Going Further** 

**Easy Modifications** 

2. Adjust firing effects

3. Modify rotation speeds

Advanced Modifications

1. Add damage systems

2. Implement target priority

4. Add team-based targeting

TurretController Parameters

Movement Settings

Combat Settings

csharp

csharp

3. Create custom firing patterns

Script Parameters Reference

[Range(0, 360)] public float baseRotationSpeed = 180f;

[Range(0, 360)] public float weaponRotationSpeed = 180f;

[Range(0.01f, 1f)] public float alignmentThreshold = 0.1f;

baseRotationSpeed: Controls horizontal rotation speed

weaponRotationSpeed: Controls vertical aim speed

alignmentThreshold: Fine-tunes rotation precision

[Range(1f, 200f)] public float attackRange = 30f;

attackRange: Maximum engagement distance

fireRate: Shots per second per spawn point

[Range(1f, 100f)] public float speed = 20f;

public GameObject explosionPrefab;

**Technical Requirements** 

Unity 2020.3 or newer

Standard Unity physics system

No special packages needed

[Range(1, 100)] public int particleCount = 30;

· Comments in the code explain how everything works

[Range(0f, 720f)] public float rotationSpeed = 360f;

[Range(0f, 10f)] public float homingStrength = 10f;

HomingProjectile Parameters

Movement Settings

csharp

Effect Settings

csharp

[Range(0.1f, 10f)] public float fireRate = 1f;

4. Change targeting behavior

Tips for Better Performance

1. Change projectile appearance

1. Adjust Attack Range: Lower range = less computation

2. Particle Effects: Keep particle count under 50

3. **Fire Rate**: Stay below 5 for best performance

Controls how projectiles behave:

fireRate

csharp

Base Rotation Speed: 180 → 360

Weapon Rotation Speed: 180 → 360

1. Create a particle effect prefab

Controls the main turret behavior:

2. Assign it to the "Explosion Prefab" field

3. Adjust "Particle Count" to control effect intensity

(For advanced users who want to modify the scripts)

baseRotationSpeed // How fast turret turns (0-360)

· Modify them to fit your needs

· Learn from them to make your own systems

· Compare your setup with the demo scene

"How do I make the turret shoot faster/slower?"

· Check the demo scene for examples of different fire rates

Yes! While these scripts were made to demonstrate the turret models, you're free to:

4. Testing Your Turret

**Common Questions** 

The fastest solution is to:

1. Open the demo scene

"My turret isn't shooting!"

Check these common issues:

Tip: Not sure which part should be the Weapon Mount or Aim Reference? Check the demo

Tip: The demo scene turrets use balanced settings that work well in most situations. Start with

· Aim Reference (usually the tip of the barrel)

• At least one Projectile Spawn Point

how they affect turret behavior.

**Getting Started in 5 Minutes** 

4. Use this scene as a reference when setting up your own turrets

Pro Tip: The demo scene is your best learning resource! It shows exactly how everything should be connected and configured. Feel free to play with the settings in play mode to see

Need Help? · Check the example scene to see everything set up correctly Contact support through the Unity Asset Store

Note: The included demo scene is your best reference for understanding how these scripts work in practice. It contains working examples of all features and can serve as a template for your own implementations. While the scripts are free to use as you see fit, the demo scene provides a solid foundation to build upon.