TP-100

Auto Tracking System

Quick Guide | English

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Safety precautions

■ **Battery safety information:**

1.Keep the battery at a dry and cool environment.
2.DO NOT dispose of your battery with household waste. Send used batteries to a specific re-cycling location.
3.Remove your battery out of your device if you are not to use it for long time. Do the same with empty batteries as the remote controller may be damaged by leakage of current and battery liquid.
4.DO NOT mix old and new batteries together for use.
5.Please use the alkaline Duracell battery recommended by the supplier. DO NOT mix batteries of different brands together for use.
6.DO NOT expose your battery to flames as this may lead to explosion or power leakage.
7.DO NOT short circuit the anode and electrode of your battery.

■ **Precautions before using your product for the first time:**

1.Please open the package of your product with care. Please keep the packaging material as you may need them for transport, storage, or return for service in future.
2.There is no switch or button inside your product that needs any operation from you. For your safety, DO NOT open the outer case of your product, apply improper operations on it, e.g. turn or swing it with great forces, as you may get an electric shock and/or void the limited warranty. Contact your local dealer should there be any problem with your product.
3.For better tracking effect, please do not track in limited spaces. Install your product in open space without surrounding walls. Avoid walls, barriers like large size glasses and metal objects, in the desired tracking space.
4.The optimum installation distance: 4~7 meters away from the target object at height 2.5 meters above ground.
5.Your product is designed for use in indoor environments and without direct sunlight. For room with window(s) please have curtain(S) installed.
6.Please use your product in proper environment. Please DO NOT install your product in the following environment:

- Unstable location or uneven surface
- Location near strong magnetic field
- Damp or leaking environment
- Overheat or place near heater or wind pipes or location exposed to direct sunlight for long time
- Dusty location
- Vibrating location
- Close to any amplifier

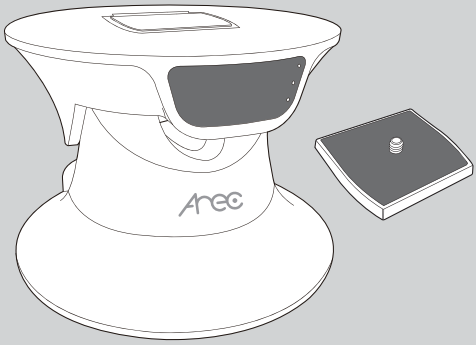
7.In case smoke or odor is detected, unplug the power adaptor and send to the service center for check.
8.Please insert the plug of the adaptor firmly in the power socket without exposing the pin to avoid electric shock. Ensure the socket is of adequate capacity for the required current. DO NOT insert the adaptor in the power socket before wiring to avoid personal injury.
9.Please remove the power plug if you are not to use your product for long time to maintain electric safety. Remove the plug by holding the plug's plastic part with dry hands.
10.Please wire your product according to the installation guide and instructions printed on your product for the optimal effect.

Product specifications

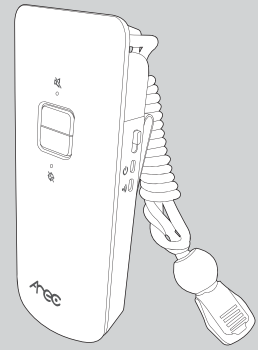
TP-100 Auto tracking system	
Rotation	Panning: 355 degree Tilting: 60 degree (-25 ~ +35 degree)
Tracking range	A circle of 2~12 meter radius (from locator to TP-100)*
Manual operation	Via control web page (TP-100 setup page along with KS-700 online directing) RS-485 control with Pelco-D/Pelco-P protocol
Setup function	Enable panning/tilting control Tracking sensitivity and speed regulation Offset position definition 15 preset points and 3 patrolling path One login user account and password management Device name definition and software update
Power supply	DC12V 2A (TP-100 + CI-200)
Working temperature	Celsius: 0~50 degree
Weight	800g
Interface	RJ-45 port*2 Power socket*2
Authorized external camera devices	
Optional camera	AREC CI-200 (18X) digital network camera
Video format	H.264, up to 1080p@30fps
AM-500 wireless microphone locator**	
Locator function key	Stop tracking and Mute function
Effective range of microphone	A circle of 12 meter radius (from microphone to audio receiving antenna)***
Sound input	Φ 3.5 audio input jack
Locator power supply	AAA dry cell X 2 (Please use the Duracell alkaline battery)
Power consumption estimates	6 to 8 hours (Duracell alkaline battery recommended)

*: Based on actual results in AREC recommended indoor operation environment.
**: The wireless microphone must work together with AREC KS-700 media station.
***: Without wall, human body or any large size barrier in between.

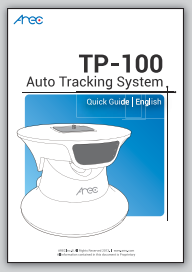
Check items supplied



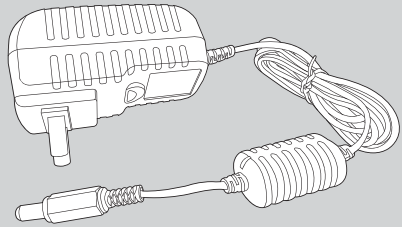
AREC TP-100 auto tracking system (with quick shoe)



AREC AM-500
wireless microphone positioner

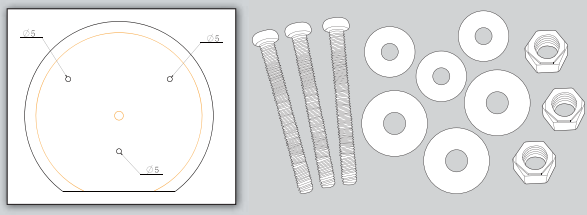


User manual

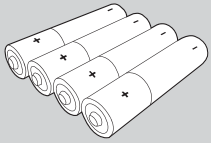


Power adaptor

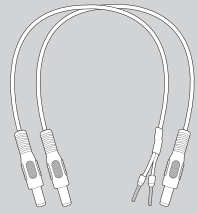
Software and utility DVD



Accessory installation pack (including sticker, screws and nuts)



3A battery x 4

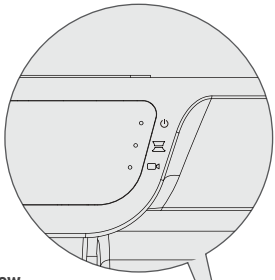


Camera and power cable

Camera network cable

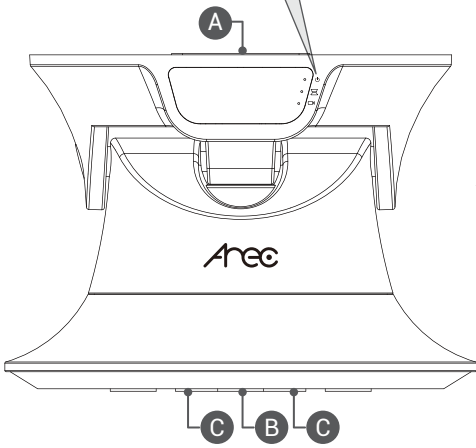
Getting to know your product

Front light indicators



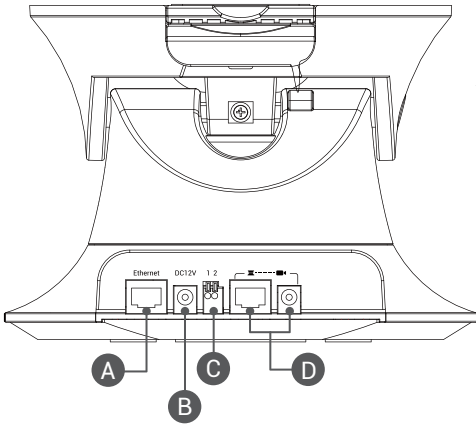
Power light indicator*
TP-100 network light indicator
Camera network light indicator
*: Steady green: When powered ON
Flashing green: When the tracking target is identified

Front view



A. Quick shoe (for camera mounting)
B. Standard 1/4" 20 UNC screw hole (to fix to the quick shoe)
C. M3 screw holes (for fixing with included screws)

Rear view



A: TP-100 external network port*
B: TP-100 external power socket
C: RS-485 interface
D: Power and network interface for TP-100 and network camera
*: To connect to Local Area Network(LAN) or AREC KS-700 device

How to install your product

■ **Wall mount or on a stand**

1. The standard 1/4" 20 UNC and three M3 screw holes at bottom of TP-100 enable it to mount on a wall or on a stand.

2. Fix the mount or stand to a wall or floor, then mount your TP-100 to the quick shoe or the screw holes in the hanger.

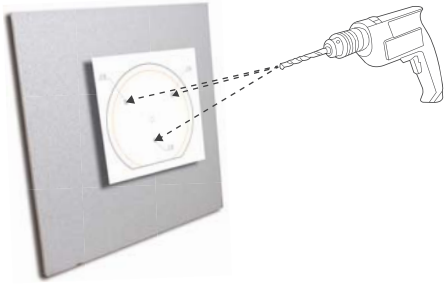
Note: Some mounts may feature a screw locking place with limited size. The bottom of your TP-100 may thus fail to fully snap to it and lead to vibration during panning or tilting and, in turn, poor recording. Please use a mount with larger screw locking place.

■ **Ceiling mounted installation**

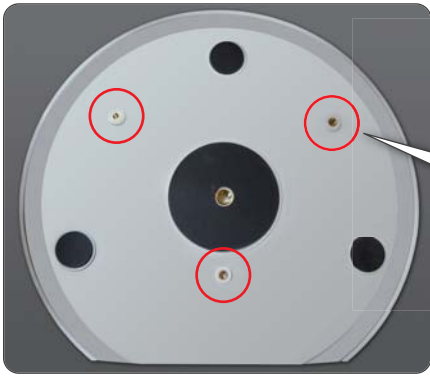
1.Remove the ceiling panel at the target installation location.

2.Open the positioning sticker, affix it to the desired location at the target ceiling.

3.Drill holes with a drilling tool.



4.Align the screw holes in your TP-100 to the holes you made earlier, lock it with the included screws and nuts



5. Replace the ceiling with TP-100 to its original location, connect both the network and power cables, and the installation is completed

How to enable the auto tracking function?

1.Connect your TP-100 to power source and the green power indicator lights up

2. Insert the battery in your AM-500, power it ON by pushing the power button to the ON position, the green power indicator lights up briefly then turns OFF.

3.Fix your AM-500 to the target person or object properly. After your AM-500 is detected by your TP-100, its power indicator flashes and then the latter follow the movement of the former automatically.

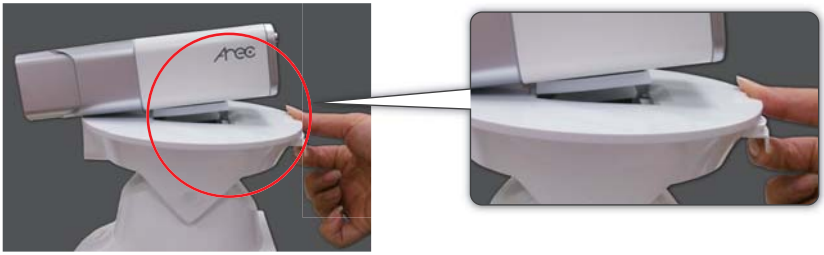
*Note: Fix your AM-500 with the metal back clamp and lanyard when wearing it for better tracking effect.

How to install a network camera?

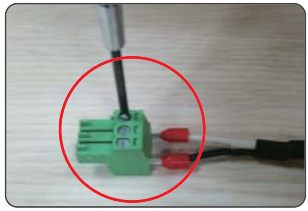
1.Pull open your TP-100's QUICK SHOE lock, remove the QUICK SHOE.

2.Lock the QUICK SHOE to network camera's standard screw holes by referring to directions shown in QUICK SHOE's instruction label.

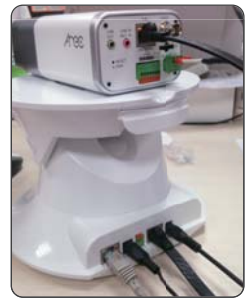
3.Pull open your TP-100's QUICK SHOE lock, insert the network camera until the DRB lock snaps back to its original position.



4. Prepare the power wire to connect your TP-100 and the network camera. If your network camera comes with a power terminal block, then lock it to the power wire first. Please make sure you have the anode and electrode aligned correctly.



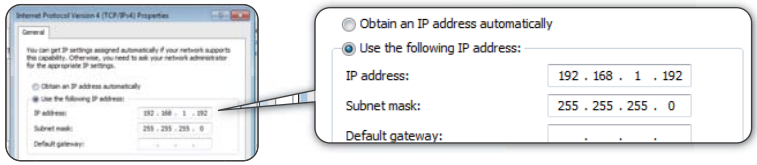
5. Connect the network and power cables by referring to the printed instructions at the back of your TP-100 and the installation is completed.



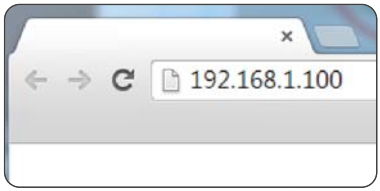
How to enter the TP-100 setup page?

■ **Via computer connection**

1.Connect your TP-100 to your computer with standard network cable, set the computer's network domain to 192.168.1.xxx and subnet mask to 255.255.255.0

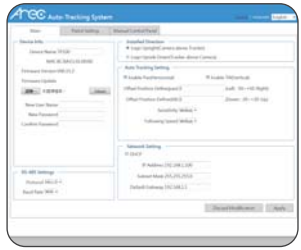


2.Open up your network browser, type in IP address of your TP-100: 192.168.1.100 and you are in the TP-100 setup page now.



Note: If you failed to enter the setup page, try several times by repeating the above steps. If the problem persists, connect your TP-100 to a router, discover it by scanning with the "Device Search" utility contained in the included DVD-ROM. After the new IP address of your TP-100 is acquired, set the first three numbers of your computer's IP address to the same as that of the newly found IP address of your TP-100, open up your network browser, type in the newly found IP address of your TP-100 and it should work now.

3.Type the account ID and password, admin and admin respectively, and the setup page displays. See your user's guide for function details.



■ See User's guide of AREC KS-700 for the connection of your integrated smart recorder and player.

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