



# AREC Student Tracking System



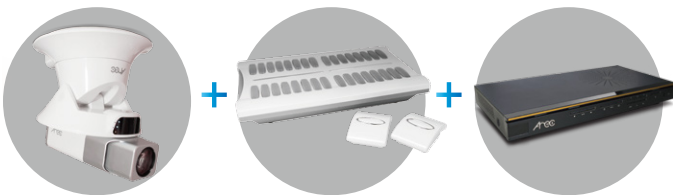
- Simple in Implementation and Economical to Purchase
- Neither Auxiliary Recognition Camera nor Complicated Image Calibrations
- Supports 32 or 64 student close up image focus

AREC Student Tracking System automatically switches close-up focus view when a student speaks up during class. The simple to install tracking system can be set up to provide multiple student close ups within a single classroom, and does not require the presence of auxiliary camera and software calibrations to minimize cost and complexity.

## Main Features

### An Easy to Install and Highly Functional System

AREC Student Tracking System does not require infrared sensor, imaging recognition equipment and complex image calibration. This simple system only require one network camera mounted on a AREC TP-100 Tracking Camera Mount, a Student Tracking Device, Press-to-Track Buttons and a AREC Media Station to perform in class student tracking and recording.



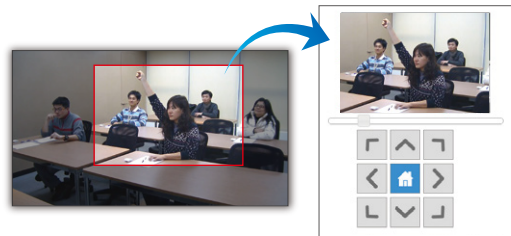
### Reduced Purchase Cost and Installation Complexity

AREC Student Tracking System is economical to purchase and simple to set-up, minimizing both procurement and installation costs.



### Accurate Student Positioning

AREC Student Tracking System will automatically switch to the close-up view of the student who presses the "Press-to-Track" button and stays focused to the student regardless of movements in its surroundings.



### Supports Multiple Languages and Cancel to Speak Function

AREC Student Tracking System provides many screen switching options including "free to track", "single speaker" and "multiple speakers" modes. The press to shoot request can also be cancelled by the instructor, the student or to be canceled by the tracking system.

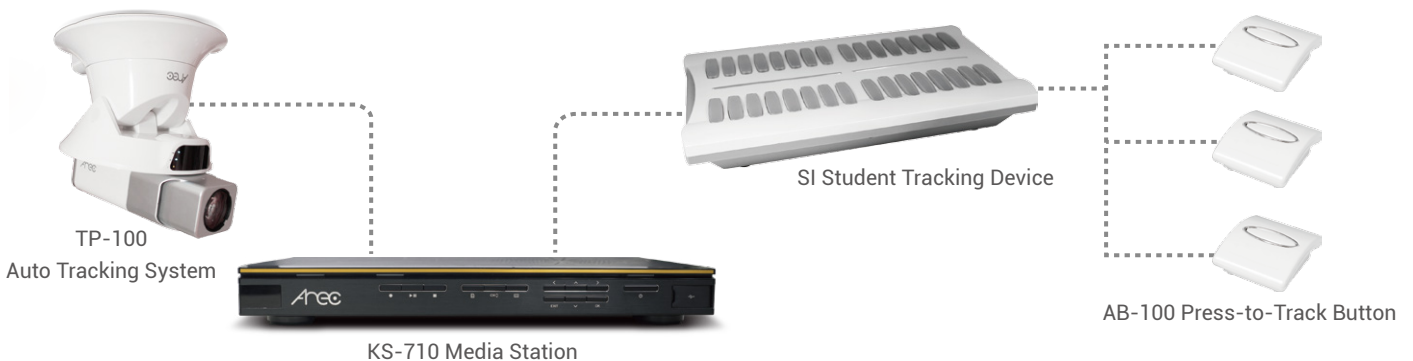


Single Speaker Scenario



Multiple Speakers Scenario

## System Diagram



## Specifications



**S1 Student Tracking Device**

Press-to-Speak Button	32 (Max) per device
LED Indicator	Power LED / status LED / wish to track LED x32
Frequency Range	50Hz~10KHz
Working Voltage / Current	DC 5V / 600mA
Temperature / Humidity	0~50 °C / 10%~90%
Dimension	260mm(L) x 165mm(W) x 40mm(H)
Weight	495g



**AB-100 Press-to-Track Button**

Working Voltage / Current	DC 12V battery / 10mA
Temperature / Humidity	0~50 °C / 10%~90%
Dimension	60mm(L) x 45mm(W) x 23mm(H)
Weight	31g



**CI-218 Full HD Network Camera**

Image Sensor	Sony progressive CMOS
Lens	18x optical zoom, auto focus
Focal Length	4.7 – 84.6 mm (18x)
F Number	F1.6 (wide); F2.8 (tele)
Filed of View	63.4° (wide) ~ 4.5° (tele)
Video Streaming Format	H.264 : Full HD 1080p / HD 720p / XGA / SVGA / D1 / VGA / CIF MJPEG : Full HD 1080p / HD 720p / XGA / SVGA / D1 / VGA / CIF
Image Auto Adjustment	BLC / auto white balance / 3D noise reduction / WDR
Image Setting	Brightness / exposure / sharpness / contrast / saturation / hue / ICR / digital zoom
Network Interface	RJ-45, 10/100/1000 Mbps Ethernet (Giga Ethernet)
Temperature / Humidity	-10°C~50°C (14°F ~ 122°F)/ 10% - 90% RF
Dimension	183.3 x 75.2 x 52.4 mm (L x W x H)
Weight	450g (1 lb)
Power Supply	9W



**TP-100 Auto Tracking Camera Mount**

Panning and Tilting Range	355 degrees horizontal / 60 degree vertical (-25 to +35 degrees tilt)
Tracking Distance	2~12m R
Manual Control	IP or AREC web-based video switcher RS-485 joystick (protocol: Pelco-D/Pelco-P)
Power Supply	DC12V 1.5A (mount+ network camera)
Temperature	0~50 °C
Weight Capacity	800g
Other Camera Equipment Attachment Interface	Quick release plate-std. bolt fasteners (1/4" 20 UNC)



**KS-710 Media Station**

Max. Video-In Channels	Maximum 4 channel synchronized recording HDMI/VGA: 2 channels Full HD network camera: 4 channels
Max. Audio-In Channels	3.5mm Stereo: 2 channels Wireless Mic: 1 channel HDMI: 2 channels
Video Compression	H.264 / AVC
Resolution/ Frame Rate	Max. 1080p / 30fps
Audio Compression	AAC-LC
Local Storage	1TB 2.5" SATA III Hard Drive
Locally Stored File Output Format	MP4
Video Output Interface	HDMI/ VGA
Recording Modes	Mixed+ original sources mode/ mixed mode
FTP Backup	Video files will be backed up automatically to FTP server after end of recording
Display and Recording Layout	Full screen/ picture-in-picture/ picture-by-picture/ multi-channel split screen
Video Management Platform	Built-in video management platform: through web-based control interface
Power Supply	12V / 2A
Temperature / Humidity	0~50 °C / 90%
Dimension	354mm(L) x 188.2mm(W) x 46mm(H)
Weight	1.52kg (3.3lbs)



AREC Inc. | [www.arec.com](http://www.arec.com) | [sales@arec.com](mailto:sales@arec.com)  
Headquarters: Taipei, Taiwan Address: 3F, No. 367, Sec.2, Wenhua RD., Banqiao Dist., New Taipei City 220, Taiwan (R.O.C) TEL: +886-2-8259-5060



Exclusive Representative in Europe, Africa and CIS countries  
ADENA Limited | [www.a-dena.com](http://www.a-dena.com)  
E-MAIL: [yakov@a-dena.com](mailto:yakov@a-dena.com)  
TEL: +886 2 2577 7667