

NetworkTV

NetworkTV NTV8-12 & NTV8-20 Tracking Cameras

The NTV8 range are 1080p tracking cameras designed to work in lecture theatres, teaching classrooms, meeting rooms and boardrooms. There are currently two different versions, the NTV8-12 with a 12X zoom and 72.5° field of view and the NTV8-20 with a 20X zoom and 60.7° field of view. Each version provides a two camera view for capturing the main target in both wide angles and for zooming into the subject showing fantastic detail. The second camera shows a fixed panorama view.

The cameras are intended to be used in conjunction with our Auto Tracking Configuration Software allowing you to configure the camera to work in a number of different scenarios including a lecture theatre with the speaker being tracked at a distance of up to 20 metres away or alternatively a meeting room or classroom environment. The Auto Tracking Configuration Software allows you to set areas of the room that you want to block interference from ('shield' areas) such as door openings and TV displays. The system also has the capacity to handle a number of other camera inputs including audience and board views. Other functionality allows you to save preset configurations and recall them, set sensitivity parameters such as tracking range, tracking speed and viewing range, lost target setup and output resolution. The camera also includes audio input to synchronise for video streaming.



Be seen in 1080p

Crystal clear High Definition 1080p video with lossless 12X optical zoom letting you get up close to see and interact with your subject. The camera offers output from 640x480p/240 upto 1080p/60 at 60fps.



Network Control & IP Streaming

The NTV8 camera offers built in network control for functionality management. The NTV8 camera can stream out 1080p H.264 video simultaneously with other outputs for maximum flexibility.



RS-232 CAMERA CONTROL

RS-232/RS-485 Camera Control

Integrate the cameras into a larger control system such as Crestron, Extron or AMX.



Easy Set Up - Plug & Play

With this camera you are getting the easiest solution possible for a sophisticated environment.



IR REMOTE CONTROL WITH PRESETS

Camera Presets

Access up to 255 camera presets and easily control your camera's pan, tilt and zoom along with other fine tuning settings.



Wide Field of View

The NTV8 models offer a wide field of view with the ability to zoom into a specific target on the feature camera and a panorama view from the second camera.



HD-SDI VIDEO CONNECTION

3G-SDI, HDMI and IP Connectivity

Video can be output simultaneously with 3G-SDI, HDMI or IP streams.



Audio Input

The camera includes a Line In audio capability via an 3.5mm audio jack.

KEY FEATURES

- 72.5 or 60.7 degree wide-angle lens & built-in panorama camera
- High performance in low illumination situations
- Full 1920 x 1080p HD Resolutions up to 60 frames per second
- 2D and 3D noise reduction with our latest "low noise CMOS sensor"
- Wide Dynamic Range: capable of capturing all features of images when there is a strong contrast between subject and background
- IP Streaming & Control (Control Software is Open Source)

WHAT'S IN THE BOX

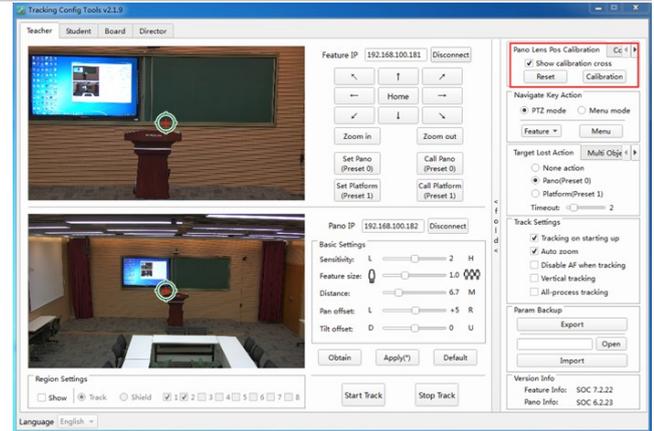
- 12X or 20X Zoom SDI, HDMI & IP Camera
- Power Adapter
- IR Remote Control
- RS-232C to RS-485 Cable

NTV8 PTZ Camera Auto Tracking Configuration Software

Camera Management & Calibration

The Auto Tracking Configuration Software is an integrated suite of functionality designed to complement the NTV8 auto tracking camera. It currently runs on Windows based PCs and manages the input from the Feature camera and the Panorama camera via their unique IP addresses.

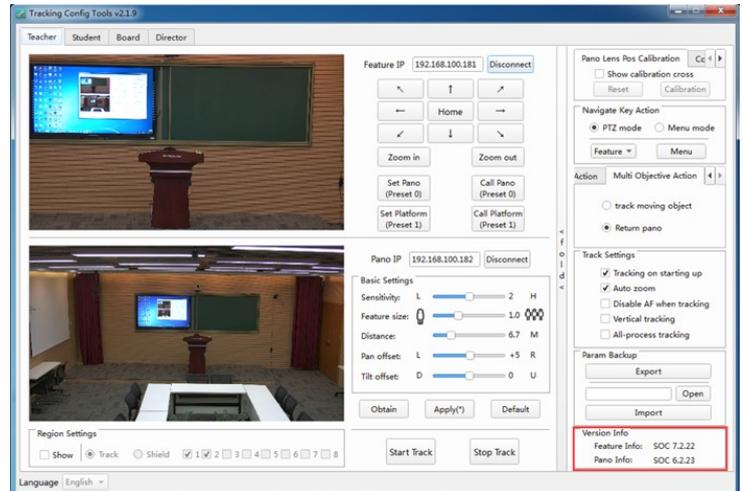
The software allows you to adjust the PTZ functions of the cameras in order to test the effectiveness of close-up or panorama scenes and also calibrate the camera position in relation to the target, which you can see in the screenshot on the right.



Feature & Panorama Camera Control

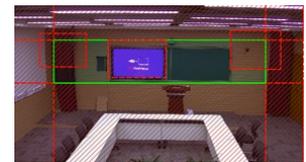
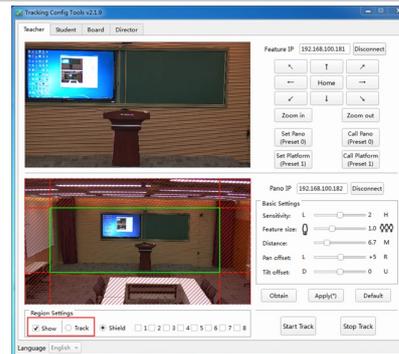
The Feature Camera control provides a series of basic settings to establish the camera tracking for the Target in the specific room surroundings. However, the settings can be saved and copied to other NTV8 cameras in different locations. Setting these parameters ensures the automatic tracking is as smooth and precise as possible. The control functions include:

- set tracking range and response speed sensitivity
- set viewing range
- choose horizontal tracking distance between camera and target from 2m and 20m
- camera pan offset
- camera tilt offset
- set multiple target control



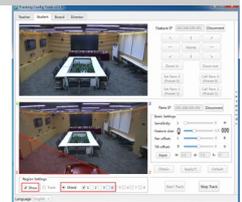
'Shield' Blocking Control

The Auto Tracking Configuration Software provides the capability to block certain parts of the room so that these areas do not allow interference during the auto tracking process. This means that you can set up to 8 areas of the room such as door openings, display screens and windows that will not affect the camera performance when it is tracking a target. Therefore someone opening a door and walking into the room will not affect the auto tracking of the main target person.



Student Camera & Board Camera

The Student Camera control functionality is designed for when the camera is used in a classroom or training room environment when several targets need to be auto tracked. An area of the room can be designated so that anybody in that area who makes a specific movement will be tracked by the camera. The Board Camera option means that the system can also manage a display or smartboard as a target.



Director Settings

Director settings are used to configure the communication parameters for the teacher camera, student camera and board camera. The software will provide the Director with control of the various camera inputs and each can have specific parameters set for them so that switching between them for broadcast can be a simple task.

Camera Specification—Close-up Camera

Video System	1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x/20X, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16x (optional)
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5° ~ 6.9°; 60.7° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°; 34.1° ~ 1.89°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +30°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Image Freeze	Support
Number of Presets	255
Preset Accuracy	0.1°

Camera Specification — Panorama Camera

Video System	1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens Mount	C/CS Mount
Auto Iris	DC Driver
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K_1, 6500K_2, 6500K_3, One Push, Manual
Day-night Mode	IR cut filter with auto switch
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Image Freeze	Support
Ceiling Installation	Support

Network Features

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576
Second Stream Resolution	720x576, 720x480, 320x240
Video Bit Rate	128Kbps ~ 8192Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

Input/Output Interface

HD Output	1 x HDMI: Version 1.3 2 x 3G-SDI: BNC type, 800mVp-p, 75Ω, complies with the SMPTE 424M standard
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
USB	1 x USB2.0: Type A female jack
Communication Interface	1 x RS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)

Generic Specification

Input Voltage	DC 12V
Current Consumption	1.5A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	18W (Max)
MTBF	>30000h
Size	240x144x198.7mm
Net Weight	2.015Kg
SKU Number	NTV-8-12-BK-G; NTV-8-20-BK-G