

### CONNEX Nano: Zero Latency Advanced Digital Wireless Video Systems

The CONNEX Nano is an advanced digital, zero-delay, wireless video system. The Nano is designed for seamless integration and is perfect for remote monitoring of industrial applications, including cranes, UGV and UAVs (as FPV drone vision).

Nano gives you a zero-latency video stream from the Nano camera to Nano receivers with HDMI output. With plug-n-play ease of use, the entire experience is similar to hooking a direct HDMI cable to your camera. Receive the feed on as many Nano receivers you need and output to monitors or FPV goggles. Power input supports 2-4 cells batteries (7V to 17V).



	NANO CAMERA	CONNEX NANO TX	CONNEX NANO RX
<b>VIDEO</b>			
Video Inputs	<b>HDR:</b> 105° FOV w/pre-focused lens <b>FPV:</b> 126° FOV w/pre-focused lens	MIPI - 720p30/720i60/720p60	5GHz RF
Video Outputs	<b>HDR:</b> MIPI - 720p30 or 720i60 <b>FPV:</b> MIPI - 720p60	5GHz RF	720p60 via HDMI 2.0 Type A connector
HDR	115dB	N/A	N/A
Video Latency (lens to HDMI output)	<b>720p60 (FPV):</b> 1mS <b>720i60 (HDR):</b> 9mS <b>720p30 (HDR):</b> 26mS		
<b>PHYSICAL ATTRIBUTES</b>			
Dimensions	<b>HDR or FPV Camera:</b> 28mm x 20mm x 27mm (1.1" x 0.8" x 1.1")	70mm x 36.5mm x 7.2mm (2.8" x 1.4" x 0.3")	117mm x 75mm x 17mm (4.6" x 3" x 0.7")
Weight	13g (0.5oz)	32g (1.12oz)	134g (4.7oz)
Construction	ABS plastic	FR4 PCB	ABS plastic
<b>INTERFACES</b>			
Configuration Interface	OSD Menu operation via RX	OSD Menu operation via RX, Power and Network Status LEDs	OSD controls via RX buttons, Power and Network Status LEDs
Desktop App	N/A	CONNEX Nano Manager application for Windows	

	NANO CAMERA	CONNEX NANO TX	CONNEX NANO RX
USB Interface Functionality	N/A	Micro USB – Connection to application; Wired pairing	
Camera-TX	Proprietary MIPI (14-pin Right-Angle, JST SM20B-SRSS) – HD Video input	N/A	N/A
<b>NETWORK</b>			
RF Channels	N/A	<b>DFS Frequencies:</b> 5.270 ~ 5.670 GHz <b>Non-DFS Frequencies:</b> 5.190 ~ 5.230 GHz and 5.755 ~ 5.795 GHz <b>HAM License:</b> 5190 ~ 5925 GHz	
Channel Selection	N/A	via RX	Auto, Fixed
RF Channel Bandwidth	N/A	<b>FPV:</b> 13MHz <b>HDR:</b> 25 MHz	
RF power	N/A	25mW (EU, SRD), 200mW (All other regions)	
Antennas	N/A	2x 2dBi antennas (included) via MMCX connector	5x 2dBi antennas (included) via short SMA connector
Range	N/A	Up to 1000 ft line of sight (Range is not limited and can be extended using directional antennas)	
Multicast	N/A	Can connect one transmitter to multiple receivers	
Noise Rejection	Can coexist with Wi-Fi and 5GHz cordless phones; Can operate up to 14 sets in same location (Depending on regional setting)		
<b>POWER</b>			
Power Input	5V (via TX)	7-17V, 4-Pin Edge connector	7-17V DC Jack
Nominal Power Consumption	100mW	4.1W	5W
Environmental	<b>Operating temperature:</b> 0° to 40° C <b>Operating humidity:</b> 10% to 90% <b>Storage temperature:</b> -10° to 75° C		
<b>GENERAL</b>			
Mountability	2x M2 side threaded holes	4x edge threaded holes	1/4"-20 threaded hole
Accessories	Camera MIPI Cable	Power cable	HDMI cable, USB OTG cable

## ORDERING INFORMATION

PART NUMBER	PART DESCRIPTION
AMN7100_NANO	Connex Nano TX Kit
AMN7200_NANO_01	Connex Nano RX Kit, US Region
AMN7400_NANO	Connex Nano 720p30 HDR Camera
AMN7600_NANO	Connex Nano 720p60 FPV Camera
AMN7000_NANO	Connex Nano Bundle