

DIGI-P52 Technical Specifications

Five Input to Two Output Switcher/Scaler/Format Converter

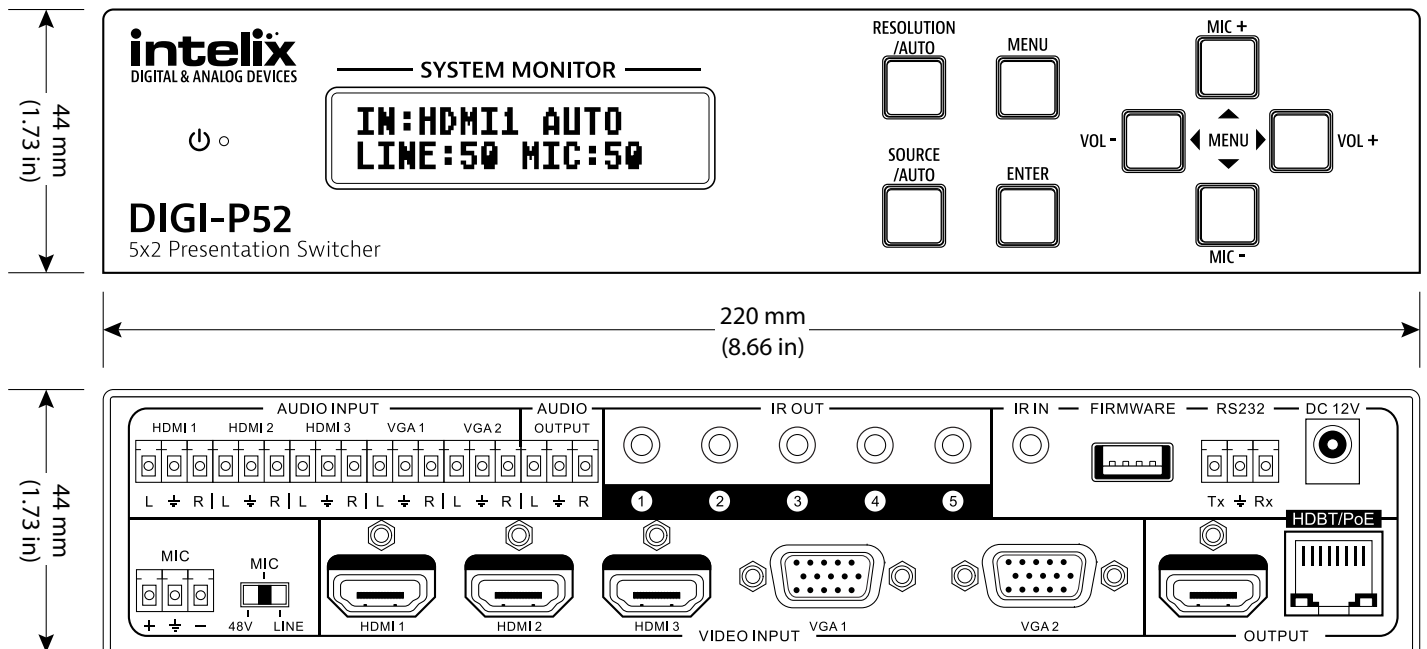
Rev 150205

The Intelix DIGI-P52 allows the integration of multiple analog and digital devices into a high-definition environment. Mounting options include under table or resting on a shelf.

The DIGI-P52 allows selection of five different sources, and will simultaneously scale the selected video to HDMI and HDBaseT outputs. The unit features three HDCP compliant HDMI inputs and two VGA inputs with discrete analog audio inputs for each input connection. The VGA inputs can be configured to support YPbPr (component video), YC (S-video), and C (composite video) video formats. There are seven fixed output resolutions to pick from, and several aspect ratio modes, which will ensure your content is displayed properly. The HDBaseT output will allow you to extend audio, video, and control signals up to 60m away.

The DIGI-P52 offers unique audio options designed to simplify your installation. All audio inputs are embedded into the HDMI and HDBaseT streams, so you can use your display speakers for audio. Additionally, the line level output can be used for reinforcement. A balanced input is provided (line or microphone level) which is mixed with the source audio to provide voice lift capabilities; while the volumes of the mic and source can be individually controlled.

The DIGI-P52 can be controlled in many different ways. When the VGA inputs are defined as PC signal inputs, the DIGI-P52 can be configured to automatically switch to an input once connected to the switcher; once a device is removed, the DIGI-P52 will switch to the first active input with HDMI inputs taking priority. The front panel offers source selection, output resolution, and volume control. Third party control systems can utilize RS232 rear panel, RS232 extended (with a compatible HDBaseT receiver), and rear panel IR control. CEC enabled source devices can be controlled from a CEC enabled display.



Input Connections	
HDMI Inputs	Three (3) HDMI type A
VGA Inputs	Two (2) HD15-F
Analog Audio Inputs	Five (5) 3-Pole/3.5mm Euroblock
Microphone Input	One (1) 3-Pole/3.5mm Euroblock
Control (Front Panel)	Push Button
Control (Rear Panel)	RS232 via 3-Pole/3.5mm Euroblock, RS232 via HDBaseT Output (8P8C-F), IR via 3.5 mm TRS
12V DC Power	One (1) Threaded Barrel (5.5 mm OD; 2.6 mm ID)
Firmware Upgrade	USB Type A Female
IR Input	One (1) 3.5 mm jack (TRS)
Output Connections	
HDMI Output	One (1) HDMI type A
Stereo Analog Audio	One (1) 3-Pole/3.5mm Euroblock
HDBaseT Output	One (1) 8P8C-F
IR Outputs	Five (5) 3.5 mm jack (TS)
Video Performance	
HDMI Input Bandwidth	4.95Gbps (1.65Gbps per color)
HDMI Input Resolutions	640x480: 60/72/75/85 Hz, 800x600: 56/60/72/75/85 Hz, 1024x768: 60/70/75/85 Hz, 1280x768: 60 Hz, 1280x1024: 60/75Hz, 1360x768: 60 Hz, 720x480i/p (4:3 and 16:9), 720x576i/p (4:3 and 16:9), 1280x720p: 50/60 Hz, 1360x768: 60Hz, 1440x900: 60 Hz, 1600x1200: 60 Hz, 1680x1050: 60 Hz, 1920x1080i: 25/30 Hz, 1920x1080p: 50/60 Hz, 1920x1200: 60 Hz
HDMI Input Compatibility	HDMI 1.3, DVI-D
HDMI Input Compliance	HDCP Compliant
VGA Input Bandwidth	375MHz
VGA Input Resolutions	640x480: 60/72 Hz, 720x400: 60 Hz, 800x600: 60/72/75 Hz, 1024x768: 60/70/75 Hz, 1280x720: 60 Hz, 1280x768: 60Hz, 1280x960: 60 Hz, 1280x1024: 60/75Hz, 1360x768: 60Hz, 1440x900: 60 Hz, 1600x1200: 60 Hz, 1680x1050: 60 Hz, 1920x1080: 60 Hz, 1920x1200 60 Hz
VGA Input Video Impedance	75ohm
VGA Input Maximum Pixel Clock	145MHz
VGA Input Video Gain	0dB
VGA Input Signal Level	0.5V~2.0Vp-p
Output Resolutions	1920x1200, 1920x1080 (1080p), 1600x1200, 1360x768, 1280x720 (720p), 1280x800, 1024x768
Audio Performance	
Analog Input Signal Level	-10dBv Nominal
Analog Input Impedance	>10k ohm
MIC Input Signal Level	-48dB Nominal (Mic input), +4dBu Nominal (Line Input)
MIC Input Impedance	600 ohm (Mic input), >10k ohm (Line input)
MIC Phantom Power	48V DC @ 350mA
ADC Format	24bit, 48kHz, 2ch LPCM
Line Level Output Impedance	50 ohm
Frequency Response	20Hz-20kHz
Stereo Channel Separation	>80dB @ 1kHz
Common Mode Rejection	>90dB @ 20Hz-20kHz

Control Parameters	
RS232 Baud	9600 baud
HDBaseT Signal Characteristics	
Maximum Distance	60 m
Cable Requirements	Solid core shielded Category 5e, Category 6 or greater with TIA/EIA-568B crimp pattern
Bandwidth	10.2 Gbps
Gain	0 dB – 10 dB at 100 MHz
Signal to Noise Ratio (SNR)	> 70 dB at 100 MHz over 100 m
Return Loss	< -30 dB at 5 KHz
Total Harmonic Distortion (THD)	< 0.005% at 1 KHz
Min-Max Signal Level	< 0.3 V – 1.45 Vp-p
Differential Phase Error	±10° at 135 MHz over 100 m
Chassis and Environmental	
Enclosure	Painted Aluminum
Dimensions	44 mm x 220 mm x 148 mm (1.73 in x 8.66 in x 5.83 in) – 1RU
Shipping Weight	0.67 kg (1.48 lbs.)
Operating Temperature	0° to +48° C (+32° to +120° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
Power and Regulatory	
PoE Standard (HDBT/PoE port) to extender	802.3af
Power Supply Input	100V-240VAC / 50-60 Hz / 0.8A
Power Supply Output	12VDC / 2.0A
Power Consumption	24 watts (max)
ESD Protection	±15 kV
Product Regulatory	FCC, CE, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS
Other	
Warranty	2 years
Included Accessories	IR Remote, IR Receiver, Wall Mount Power Supply, Power Supply Adapters (US, EU, UK, AU), Four (4) Rubber Feet, Serial Cable (DE9-F to Euroblock), Seven (7) 3-Pole/3.5mm Euroblock Connectors (installed on product), Two (2) FLX-RBOCA Cables (40 mm (15.75 in.) Male HD15 to Three (3) Female RCA Connectors (Red, Green, Blue)), Two (2) Mounting Rails with Chassis Screws, Installation Guide
Compatible Receivers (A/V Only)	DIGI-HD70-R
Compatible Receivers (A/V and Control)	DIGI-HDE-R, DIGI-HDX-R, DIGI-HD60C-R, FLX-BI4
Compatible Receivers (A/V and PoE)	DIGI-HD60-R
Compatible Receivers (A/V, Control and PoE)	DIGI-HDX-R, DIGI-HD60C-R
Optional Accessories (sold separately)	IR Transmitter (DIGIB-EMT)

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.