DOCKING STATION SERIES

ULTRA-SPEED

AVMATRIX®

DOCKING STATION
ULTRA-SPEED Capture & Playback Series

AVMATRIX®

MODEL NO.

TB-P51 | TB-P30 | TB-C12-4K | TB-C41 | TB-C42

MAX 40 Gbps

Compatible with USB4 & Thunderbolt 3/4/5-like protocols

Multi-Interface Versions

Expands Interfaces

DP OUT   40 Gbps   40 Gbps   USB 3.0

High-speed Daisy Chaining

Efficient Power Supply

Support SDK, Secondary Development

SDK

Stable 7×24h Operation

40Gbps Ultra-speed

Compatible with USB4 & Thunderbolt 3/4/5-like Protocols

Equipped with a port supporting ultra-high-speed data transfer up to 40Gbps, this capture box effortlessly handles bandwidth-intensive tasks like 4K high-definition video, significantly accelerating your creative workflow and boosting productivity. It's compatible with USB4 and Thunderbolt 3/4/5-like protocols.
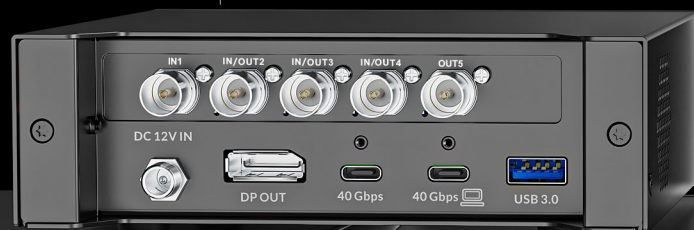
IN1   IN/OUT2   IN/OUT3   IN/OUT4   OUT5

DC 12V IN   DP OUT   40 Gbps   40   USB 3.0
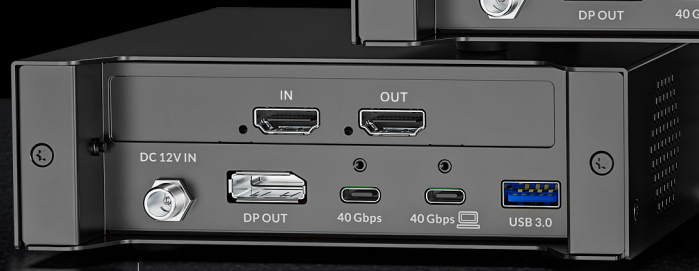
Flexible Capture & Playback
Multi-Interface Version for Options

Choose from multiple video input/output interface versions to flexibly meet your diverse equipment needs. It supports both YUY2 and RGB video formats, ensuring lossless video capture that preserves the clear, true-to-life original image quality without distortion every time you record.
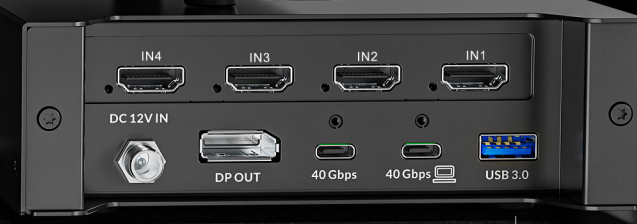

TB-P51

TB-P30

TB-C12-4K

TB-C41

TB-C42

Unlock More Connectivity

DP1.4 & USB 3.1 Gen2 for Expanded Potential

DP 1.4 Port: Up to 40Gbps bandwidth, supporting single 8K@30Hz / dual 4K@60Hz output and DP MST daisy-chain display. Extend your desktop by connecting multiple displays in a chain with only one DisplayPort cable.

USB 3.1 Gen2 Port: An additional USB port for connecting devices like SSD and Keyboard.

DP Daisy Chain   **SSD USB 3.1 Gen2 Port**

Simple & Efficient Expansion

Dual Ultra-speed Ports with Daisy-chaining

Dual ports with ultra-fast transfer enable daisy-chaining. One cable expands multiple devices in a chain—simplifying cabling for easy, efficient creative/office setups.
Compatible with USB4 and Thunderbolt 3/4/5-like protocols, up to 40Gbps.

Daisy Chain

Charge & Transfer Sync

60W Power Delivery & Data Transfer

An **optional** 20V4A power adapter is available. Through the upstream port, it delivers up to 60W of charging/power to the host device via PD protocol—all while transferring data.

IN1
IN/OUT2
IN/OUT3
IN/OUT4
OUT5
12V IN
DP OUT
40 Gbps
USB 3.0

Max
60W PD

DOCKING STATION
ULTRA-SPEED Capture & Playback Series
AVMATRIX®

Universal Compatibility
Windows & Linux Support with SDK

It's compatible with Windows 7/8/10/11 and Linux, ensuring stable performance on different platforms. It works well with popular video software like Vmix, OBS, ZOOM, Teams, and Twitch. It also supports SDK secondary development (for VP30/VP51) to meet professional users' customization needs.

* For detailed compatibility information, please contact the manufacturer.

OBS Studio   ZOOM   VLC MEDIA PLAYER   vMix   Teams

7×24h

7×24 Stable Operation
Built-in Cooling System for Continuous Use

The cooling fan operates efficiently, keeping the device in optimal working condition. Whether it's long hours of intensive work or continuous entertainment, the device can maintain stable performance.

Visual Studio

Live Streaming

Game Live

Online Teaching

Extensive Application

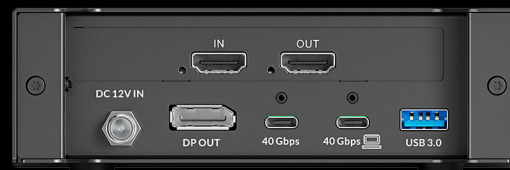Widely used in various fields, such as studio, video production, game broadcasting, education and training.
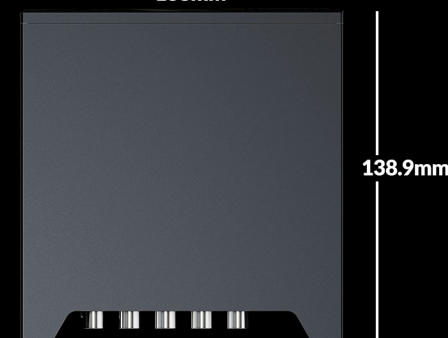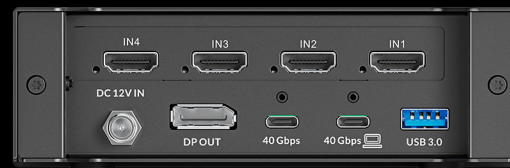
TB-P51

5-CH 3G-SDI | Capture & Playback

IN1　IN/OUT2　IN/OUT3　IN/OUT4　OUT5
DC 12V IN　DP OUT　40 Gbps　40 Gbps　USB 3.0

42.6mm

TB-P30

3-CH 3G-SDI HDMI | Playback

OUT1　OUT2　OUT3
DC 12V IN　DP OUT　40 Gbps　40 Gbps　USB 3.0

138mm

TB-C12-4K

1-CH 4K HDMI | Capture

IN　OUT
DC 12V IN　DP OUT　40 Gbps　40 Gbps　USB 3.0

138.9mm

TB-C41

4-CH 3G-SDI | Capture

IN4　IN3　IN2　IN1
DC 12V IN　DP OUT　40 Gbps　40 Gbps　USB 3.0

TB-C42

4-CH HDMI | Capture

IN4　IN3　IN2　IN1
DC 12V IN　DP OUT　40 Gbps　40 Gbps　USB 3.0

DOCKING STATION
ULTRA-SPEED Capture & Playback Series
AVMATRIX

	TB-P51	TB-P30	TB-C12-4K	TB-C41	TB-C42
INTERFACE					
Video Interface	1× 3G-SDI Input 1× 3G-SDI Output 3× 3G-SDI Input/Output (I/O)	2×3G-SDI Output 1×HDMI1.4 Output	1×HDMI2.0 Input 1×HDMI2.0 Loopout	4×SD/HD/3G-SDI Input	4×HDMI1.4 Input
Data Interface	1× DC 12V Input 1× DP Video Output 2× High-speed ports (support data, video, power supply, daisy chaining; compatible with USB4 & Thunderbolt 3/4/5-like protocols, up to 40Gbps) 1× USB3.1 Gen2				
FORMAT					
Video Format	Up to 1080p60	Up to 1080p60	Up to 4K60	Up to 1080p60	Up to 1080p60
Audio Sampling	48kHz 24bit				
SDI Color Precision	YUV 4:2:2 8bit				
Color Space	REC 601, REC 709				
SDI Compliance	SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE425M, ITU-R BT.656, ITU-R BT.601				
Device Support	Supports XBOX, PS4, SWITCH, video players, TV boxes, and media boxes, etc.				
SUPPORT					
Supports OS	Windows 7/8/10/11, 64-bit, Linux (Note: Windows 7/8 requires system digital signatures to be turned off)				
Software Compatibility	OBS, XSplit, VLC, VirtualDub, VMix, VidBlaster, Wirecast, Microsoft Media Encoder, Adobe Flash Media Encoder, any other DirectShow/V4L2				
OTHERS					
DC Power Range	12V~21V				
Thunderbolt 3 Port Speed	40Gb/s				
PD Power Output	60W/45W/27W/15W				
Power Consumption	12W				
Operating Temperature	0~40℃				
Relative Humidity	0%~90% non-condensing				
Dimensions	139.8×138×42.6mm				
Warranty	2 years				

Accessories

12V 3A Power Adapter

High-speed C-to-C cable

20V 4A Adapter(Optional)