



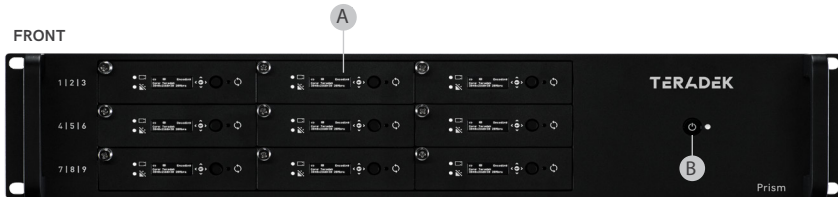
Prism

4K HEVC Encoder/
Decoder System

Quick Start Guide

PHYSICAL PROPERTIES - CHASSIS

FRONT



REAR



A: Encoder/Decoder cards (1-9)
B: Power button
C: Second power input (optional)

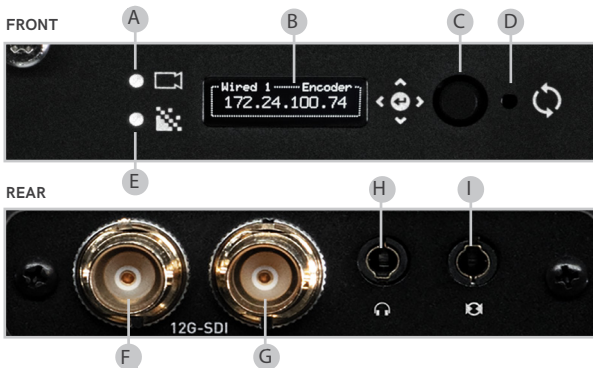
D: First power input
E: Genlink input

F: Dual Ethernet port
G: Encoder/Decoder Cards (rear)

PHYSICAL PROPERTIES - CARD

WARNING:

Prism contains sensitive electronic components that can be damaged by electrostatic discharge (ESD). When handling, care must be taken so that the device is not damaged. Damage due to inappropriate handling is not covered by the warranty.



A: Video input/output status

B: OLED display

C: Menu joystick

D: Reboot button

E: Encoder/Decoder status

F: 12G-SDI input (Encoder)

G: 12G-SDI output (Decoder)

H: Headphone/IFB input/output

I: Mic/Line stereo input/output

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POWER AND CONNECT

- 1 Connect power to Prism using the included IEC cable. Connect a second cable if your device includes a supplemental power supply (optional).
- 2 Connect an Ethernet cable between the 10/100/1000 Ethernet port and a network switch.
- 3 Connect SD/HD-SDI video sources to any input BNCs corresponding to installed encoder cards.
- 4 Connect SD/HD-SDI outputs via BNC cable to your monitor/switcher/router.

FRONT PANEL OPERATION

Use the Menu joystick to navigate the front panel interface, and the Reboot button to restart Prism.



1. Menu Joystick:

- ▲ ▼: Cycle through status screens, navigate menus
- ◀: Return to previous menu
- ▶ ● (press): Open selected menu

2. Reboot Button:

Restart the encoder/decoder

GET ONLINE

You can use the front panel interface or the built-in web UI to configure Prism encoders and decoders.

Connect via Ethernet

- 1 Connect one or both of Prism's Ethernet ports to an Ethernet switch or router.
- 2 Using the menu joystick, navigate to the **Network Settings** menu on the front panel. Select a **Wired** interface, then verify that the IP Mode is set to **DHCP**.

IP MODES

DHCP mode is the default setting. In DHCP mode, Prism cards will request an IP address and all other network configurations from the network's server. The IP address can be found by pressing the menu joystick until it's displayed on the front panel. When set to **Static** mode, you will need to manually configure the IP address and all other network configurations from either the front panel or the Prism web UI.

- 3 Once Prism is connected to a network, the front panel will display the current assigned or configured IP address for both Ethernet ports.

Access the Web UI

After connecting Prism to a network, you can access the web UI and configure stream destinations, encoder parameters, and other settings.

- 1 Press the ▼ button on the cards' menu joystick to display Prism's IP address on the front panel.
- 2 Enter the IP address in your web browser's navigation bar, then enter the default login information.

DEFAULT LOGIN INFO	
Username	admin
Password	admin

ENCODER/DECODER CONFIGURATION

Configure your decoder card to receive streams from an encoder. **NOTE: Prism cards have several streaming modes available such as SRT, RTMP, YouTube, and Facebook Live. The following instructions describe how to configure your cards using MPEG-TS mode as an example.**

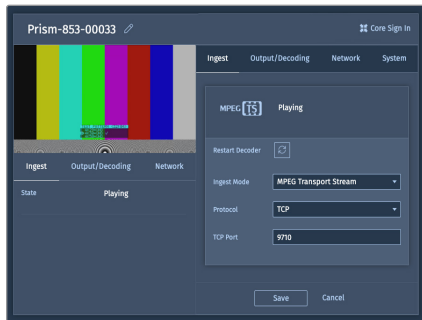
To configure:

- 1 Connect to the Prism encoder (**see previous section**) and open the encoder's web UI.
- 2 Open the **Streaming** menu, then select **MPEG-TS** as the streaming mode.
- 3 Select a protocol, then ensure the Prism decoder is configured to receive the stream using the correct protocol:
 - TCP → TCP
 - TCP Server → TCP Pull
 - UDP → UDP
 - Multicast → Multicast
- 4 Enter the destination IP address, then confirm the port is set as the default 9710.
- 5 Click **Save**.



Encoder web UI

- 6 Connect to the Prism decoder (**see previous section**) and open the decoder's web UI.
- 7 Open the **Ingest** menu, then select **MPEG-TS** as the ingest mode.
- 8 Enter the protocol, ensuring the selected protocol matches the Encoder's protocol configuration (**see step 3**). Confirm the port is set as the default 9710.
- 9 Click **Save**.



Decoder web UI

CORE

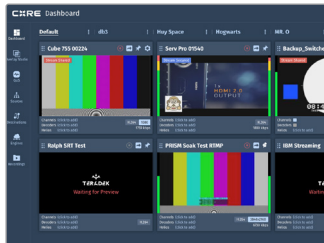
Prism can be remotely accessed, configured, and controlled using Teradek's Core Cloud management and routing service. With Core, you can:

- Bond multiple Internet connections, increasing your broadcast's bandwidth and reliability.
- Remotely control Teradek encoders, decoders and bonded systems from anywhere in the world.
- Convert an HEVC stream to H.264. HEVC provides the most efficient encoding for both low bitrate and high quality applications, while H.264 is supported by a wider variety of streaming platforms.
- Stream to multiple destinations.

Visit <https://corecloud.tv> to learn more.

Connect Prism to Core

- 1 From the web UI, click **Core Sign In** on the top right
- 2 Enter your credentials to log Prism into your Core account, then select a company.
- 3 Once a connection is established, you can configure Prism from either the Prism UI or Core dashboard.



Teradek regularly releases new firmware versions to improve performance, add new features, or to fix vulnerabilities. Visit teradek.com to update your device with the latest firmware.

NEED MORE HELP?

SUPPORT: <http://support.teradek.com> → Contains tips, information and all the latest firmware & software updates.

TERADEK SUPPORT STAFF: support@teradek.com or call 888-941-2111 ext. 2 (Mon-Fri 6am to 6pm PST)

