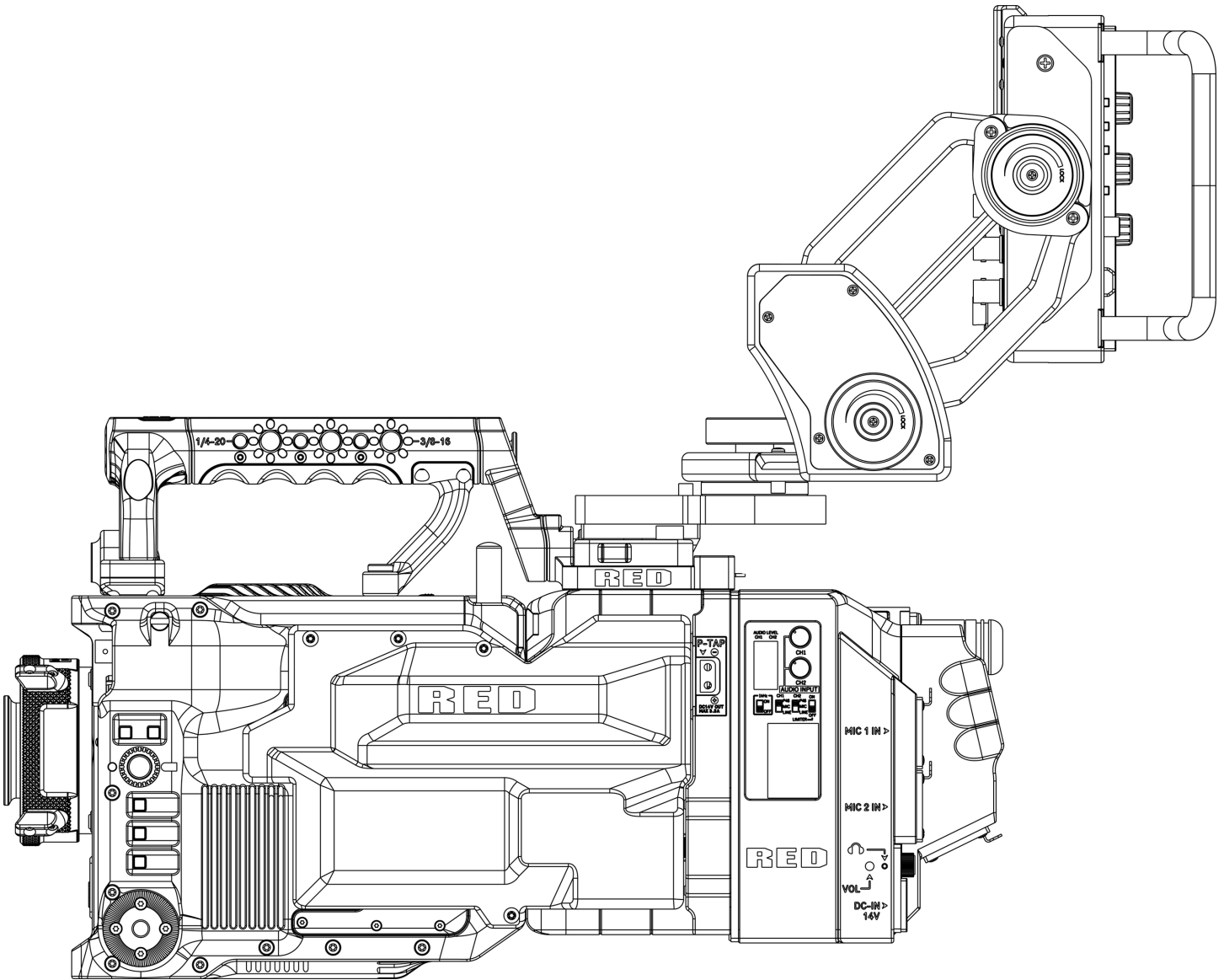




RED CINE-BROADCAST LENS CONTROL



RED CINE-BROADCAST | V1.0, REV. A

REDDIGITALCINEMA.COM

1. LENS CONTROL

BACKGROUND

RED cameras communicate directly with a wide range of lens protocols, including standard broadcast lenses using 12-Pin Hirose connectors, NIKKOR Z lenses, Canon RF and EF lenses, as well as many more adapted lenses.

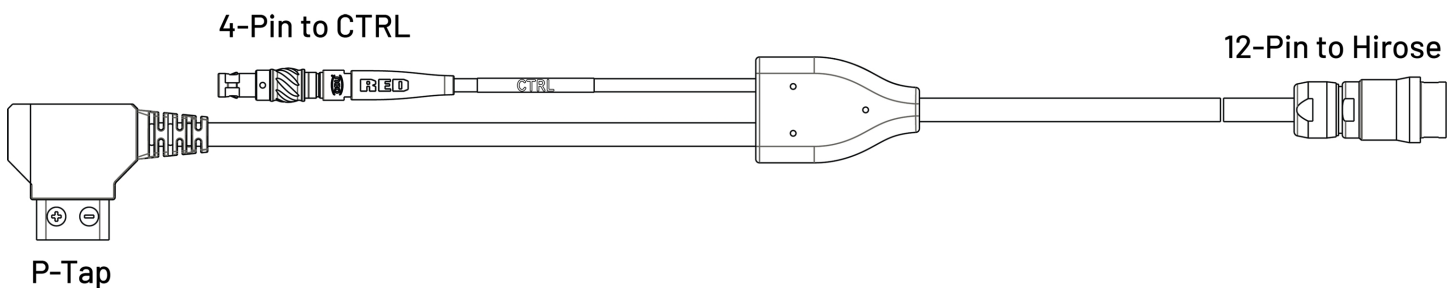
The camera acts as a bridge between these lens types and the remote-control method. No matter the lens type, all controls are unified to RED's RCP2 protocol, and presented to external controllers.

BROADCAST LENS CABLING

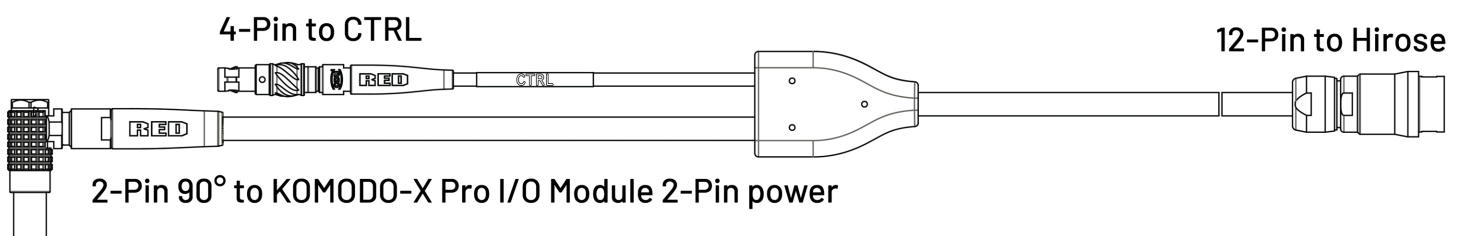
Broadcast lens control is achieved through the Serial RS-232 interface found on all RED cameras. RED provides different cables depending on your camera configuration.

V-RAPTOR, V-RAPTOR XL, OR KOMODO-X WITH BROADCAST LENS

4-Pin CTRL and P-Tap to 12-Pin Hirose cable (790-0814)¹



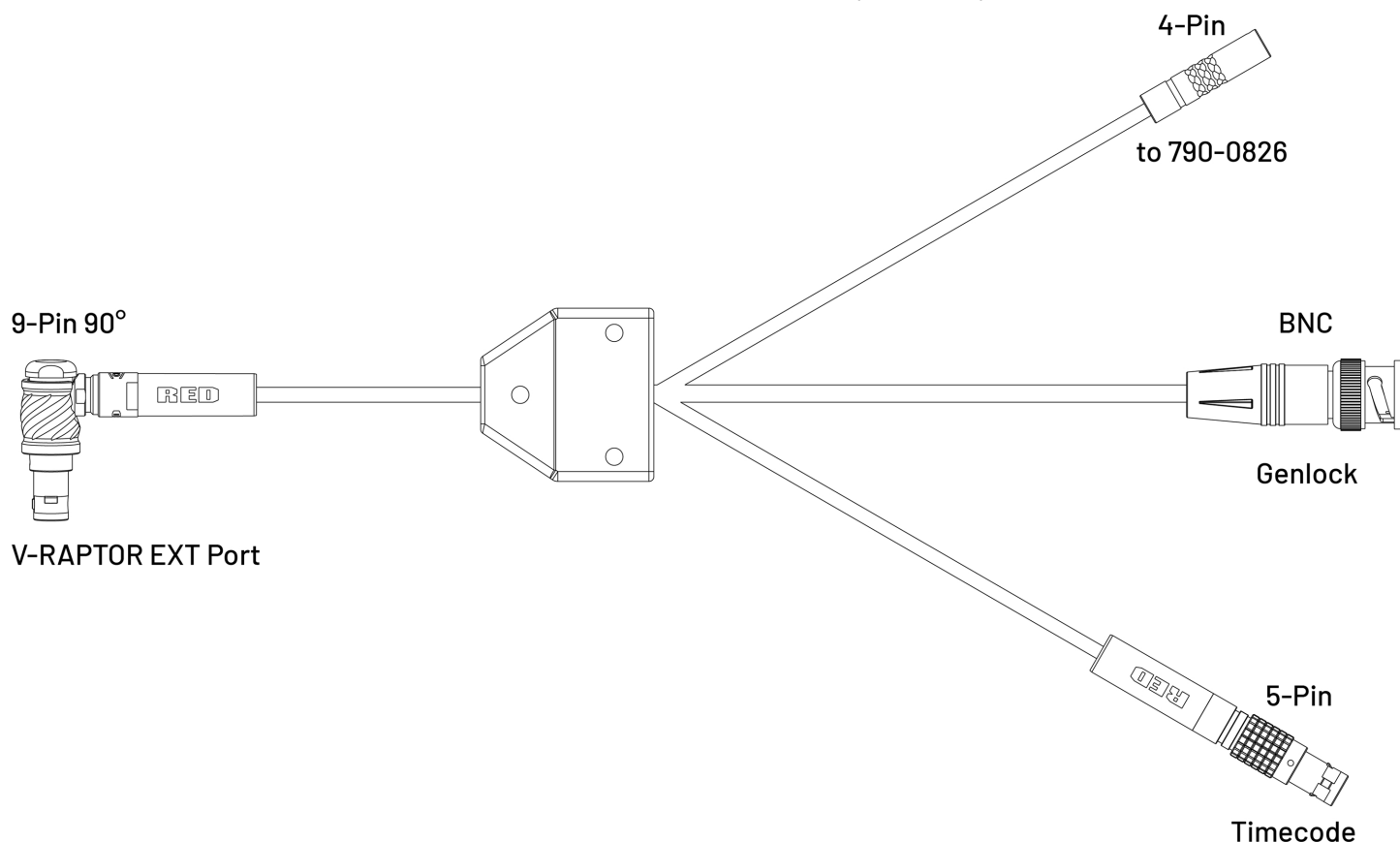
or 2-Pin Power (790-0828)¹



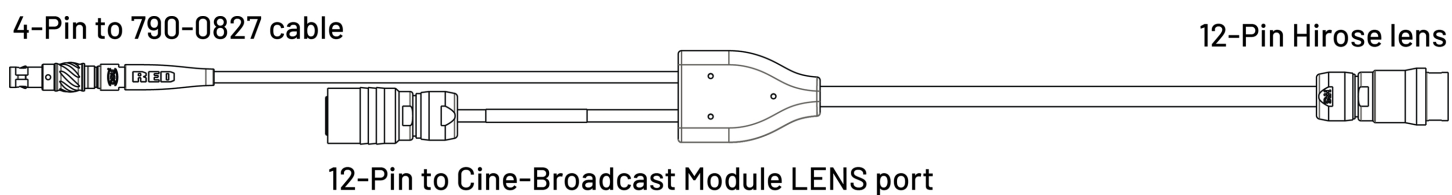
1. V-RAPTOR and KOMODO-X require 9-Pin EXT to 4-Pin CTRL interface adapters, as well as the cabled power output interface. The Pro I/O Module is recommended for KOMODO-X, and the V-RAPTOR Tactical Top Plate w/ Battery Adapter Plus and Expander Blade are recommended for V-RAPTOR.

V-RAPTOR WITH CINE-BROADCAST MODULE AND BROADCAST LENS

9-Pin EXT to 4-Pin CTRL, BNC Genlock, and 5-Pin Timecode cable (790-0827)

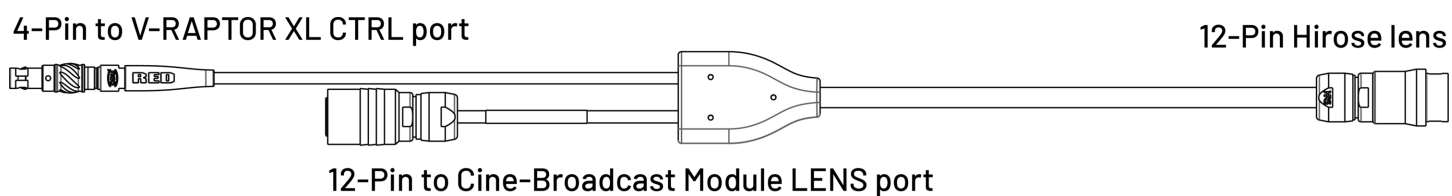


4-Pin CTRL and 12-Pin Hirose to 12-Pin Hirose cable (790-0826)



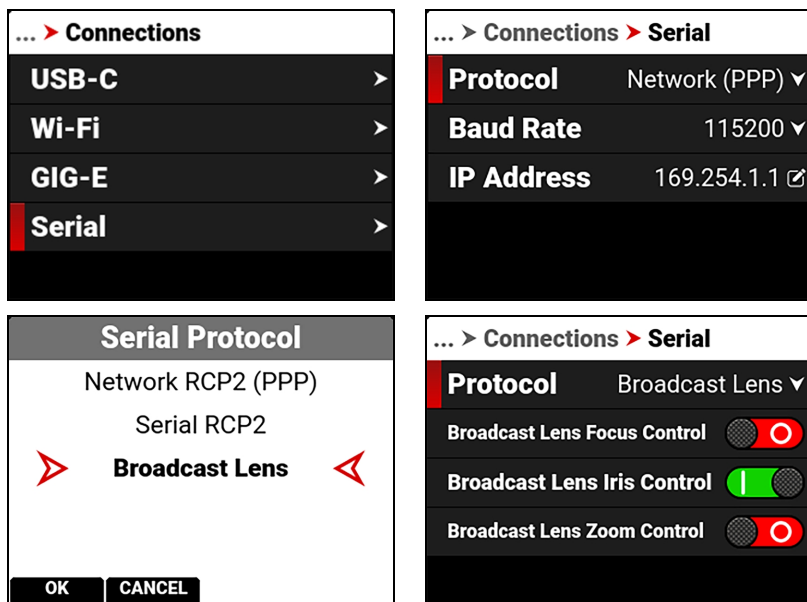
V-RAPTOR XL WITH CINE-BROADCAST MODULE AND BROADCAST LENS

4-Pin CTRL and 12-Pin Hirose to 12-Pin Hirose cable (790-0826)



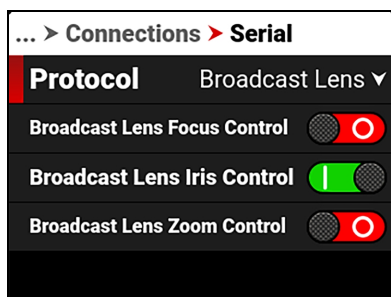
BROADCAST LENS MENU CONFIGURATION

Navigate to **Menu > Communication > Connections > Serial > Protocol**, and select Broadcast Lens.



Only enable the parameters you want to control remotely. Enabling parameters here will disable local control such as with focus or zoom demands.

FOCUS AND ZOOM DEMANDS



When using local focus and zoom demands, make sure that you disable Focus and Zoom in the Broadcast Lens menu.

See **Menu > Lens > Lens Buttons** to assign camera functions to the focus and zoom demands.

CONTROLLING LENSES REMOTELY

You can control Focus, Iris, and Zoom remotely over IP and any number of control interfaces. The most common remote lens control will be done through the major standard RCP's on the market today. There is no method for controlling Iris, Focus, or Zoom through the camera's UI.

For more information about configuring your RCP, refer to the manufacturer's RCP documentation.

You can also control the camera, including the attached lens, through the camera's web interface, or you can use advanced camera controls including keyframing through the RED Control Pro app.