

DSR-7401 INSTALLATION INSTRUCTIONS



The following instructions are for installation and authorization of an ARRIS DSR-7401 to receive HBO and Cinemax services from Galaxy 14, Transponders 8 and 16 and Galaxy 15 transponder 19.

The DSR-7401 is designed for simple setup requiring only one (1) menu screen in the user interface, with all other configurations completed by HBO's satellite broadcast control system, upon authorization. Follow the six (6) high-level steps below to setup your receiver and acquire the desired signal(s).

Steps

1. Rack mount the unit.
2. Connect two RF satellite inputs.
3. Connect ASI output(s).
4. Connect AC power.
5. Enter frequency and modulation parameters in the Quick Install menu, to gain Signal lock.
6. Contact HBO's technical assistance and authorization hotline at 212.512.5666 to request unit authorization.

Information is also provided on how to order a spare DSR-7401 unit to backup your production receiver.

The DSR-7401 user manual can be downloaded through the unit's web interface using a PC connection for additional operating instructions.

1. Rack Mount the DSR-7401

The DSR-7401 unit, with the supplied mounting brackets is designed for installation in an EIA standard 19-inch (480 mm) equipment rack. Place the unit in a stable and level position within the rack and ensure that all front rack-ear mounting screws are fully tightened, to support the unit with no possible motion as connections are made and initial programming occurs.

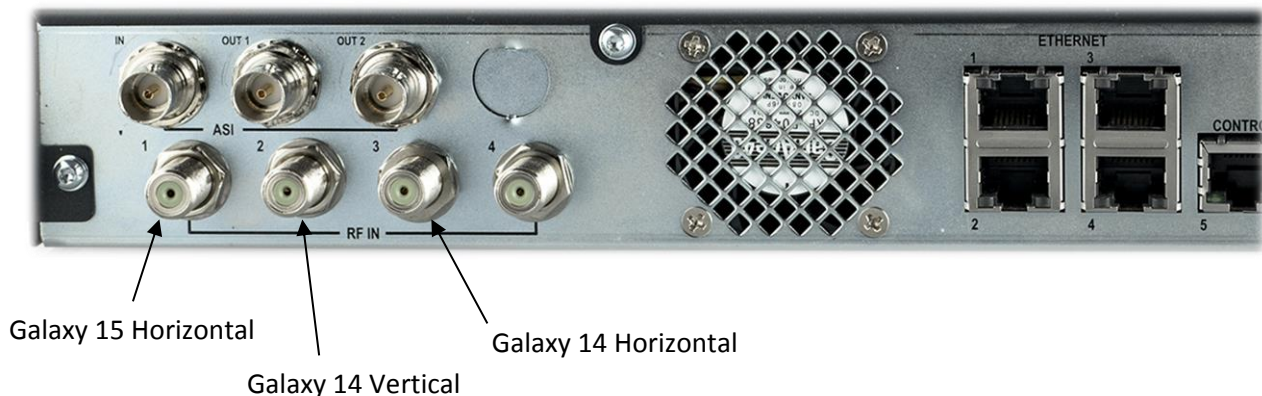
2. Create RF Connections

Connect RF input signals according to the services you will be receiving. The DSR-7401 includes 4 separate tuners allowing you to simultaneously receive feeds from multiple satellite transponders if required.

Feeds	Port 1	Port 2	Port 3
East Coast Feeds Only	Galaxy 15-19 (C-Band Horizontal)	Galaxy 14-8 and G14-16 (C-Band Vertical)	Galaxy 14-15 (C-Band Horizontal)
West Coast Feeds Only	N/A	Galaxy 14-8 and G14-16 (C-Band Vertical)	Galaxy 14-15 (C-Band Horizontal)
East and West Coast Feeds	Galaxy 15-19 (C-Band Horizontal)	Galaxy 14-8 and G14-16 (C-Band Vertical)	Galaxy 14-15 (C-Band Horizontal)

The example below shows the case for receiving both East and West Coast feeds.

- ➔ Port 1: Galaxy 15 C-Band Horizontal
- ➔ Port 2: Galaxy 14 C-Band Vertical
- ➔ Port 3: Galaxy 14 C-Band Horizontal

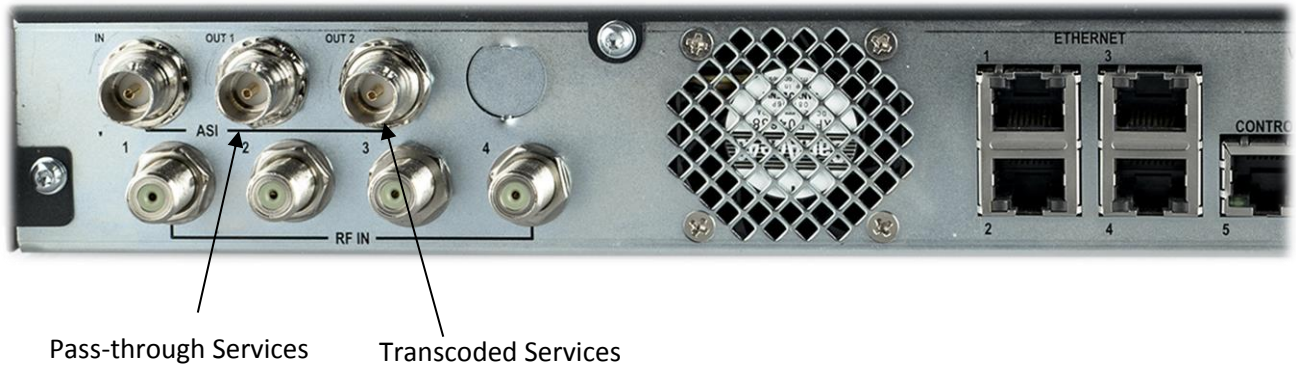


3. Create Output Connections

For ASI output, use ASI OUT 1 and ASI OUT 2 to carry MPEG-4 HD Pass-through video services and MPEG-2 SD transcoded video services.

ASI OUT 1: Is the “Pass-through” port that will output MPEG4 HD Video services without transcoding or other processing.

ASI OUT 2: Is the “Transcoded” port that will output MPEG2 SD video services.



Note: If using the IP output please refer to page 41 of the user manual, for detailed instructions.

4. Connect to AC power

When connected to AC power the unit takes about 90 seconds to boot up.

When the unit has fully booted the main menu will appear.



DSR-7401 Front Panel Control Buttons



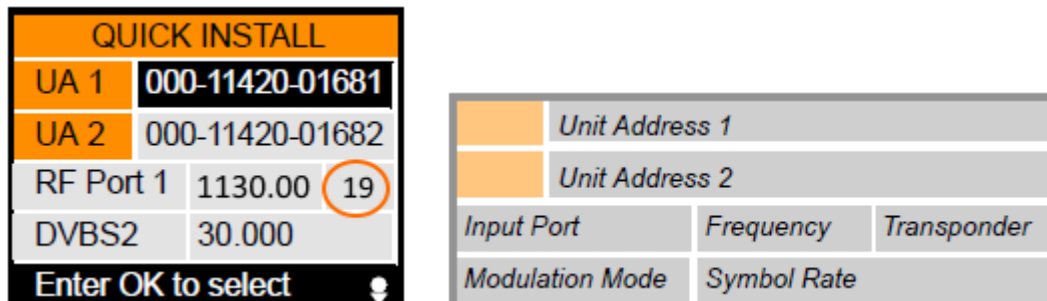
5. Manually Tune, to gain Signal lock

Select Quick Install from the Main Menu by pressing the OK button with Quick Install highlighted.

The following information will be presented.

The first 2 lines are read only and show the Unit Addresses for your receiver. Write down these addresses for use in the next step: 6. Authorization.

Lines 3 and 4 are used to configure your receiver to acquire the appropriate satellite signal.



Set and verify the following fields, also shown in the picture above.

Input Port – **RF Port 1** if you're taking East Coast feeds or East and West Coast feeds. **Port 2** should be tuned if taking only West Coast feeds.

Transponder – **19** for Galaxy 15 (East Feeds) or **Transponder – 8 or 16** for Galaxy 14 (West Feeds).

Frequency should automatically display: **1070.00** (Galaxy 15 T-19: East Feeds), **1130.00** (Galaxy 14 T-16: West Feeds) or **1290.00** (Galaxy 14 T-8: West Feeds)

Input Port – **RF Port 1**

Modulation Mode – **DVBS2** (default)

Symbol Rate – **30.00** (default)

Note: Even when using multiple RF ports, only the first port needs to be defined in this menu.

Signal Acquisition

In a moment the Signal light will turn green indicating that the satellite signal has been acquired. If you are unable to acquire a signal call ARRIS Technical Support at 888.944.4357 for assistance.



6. Authorization

Once the unit has acquired the signal on Galaxy 14 or Galaxy 15 it is ready to be authorized using the 2 Unit Addresses UA1 and UA2 obtained from the Quick Install menu.

UA 1: _____ UA 2: _____

Contact HBO's technical assistance and authorization hotline at 212.512.5666 to verify your installation and to request unit authorization.

When the unit receives the authorization message, the Authorized light will turn green.



Connection to Headend Network

Once authorization is complete your DSR-7401 will be remotely configured by uplink messaging for all desired services and can be connected to the head end distribution network.

The output program numbers for the Pass-through MPEG-4 HD (ASI 1) and Transcoded MPEG-2 SD (ASI 2) services are shown in the table below.

Processor	Type	Output MPEG Program	ASI Output
1	Pass-through MPEG-4 HD	1	1
	Transcoded MPEG-2 SD	101	2
2	Pass-through MPEG-4 HD	2	1
	Transcoded MPEG-2 SD	102	2
3	Pass-through MPEG-4 HD	3	1
	Transcoded MPEG-2 SD	103	2
4	Pass-through MPEG-4 HD	4	1
	Transcoded MPEG-2 SD	104	2
5	Pass-through MPEG-4 HD	5	1
	Transcoded MPEG-2 SD	105	2
6	Pass-through MPEG-4 HD	6	1
	Transcoded MPEG-2 SD	106	2
7	Pass-through MPEG-4 HD	7	1
	Transcoded MPEG-2 SD	107	2
8	Pass-through MPEG-4 HD	8	1
	Transcoded MPEG-2 SD	108	2
9	Pass-through MPEG-4 HD	9	1
	Transcoded MPEG-2 SD	109	2
10	Pass-through MPEG-4 HD	10	1
	Transcoded MPEG-2 SD	110	2
11	Pass-through MPEG-4 HD	11	1
	Transcoded MPEG-2 SD	111	2
12	Pass-through MPEG-4 HD	12	1
	Transcoded MPEG-2 SD	112	2

Don't Forget Your Backup

With the transition of the HBO and Cinemax services to MPEG-4 HD only distribution it's important to consider your backup options. Any receivers you have been using to receive these services will no longer be functional as either primary or backup units for the MPEG-4 services. The only viable receivers to use as shelf-spares for backing up the MPEG-4 services is the DSR-7401 (12 services) or DSR-7403 (3 services) transcoders.

ARRIS's distributors have available inventory of both the DSR-7401 and DSR-7403 transcoders. You are encouraged to contact one of the distributors listed below to purchase a shelf-spare to guarantee sustained and uninterrupted delivery of the HBO and Cinemax services to your subscriber base.

ARRIS authorized distributors:

Advanced Media Technologies

3150 SW 15TH Street
Deerfield Beach, FL 33442
Phone: 888.293.5856
Fax: 954.427.9688
Contacts: Ken Augustine and Neil Baruch

TVC Communications

10814 W. 78th St.
Shawnee, KS 66214
Phone: 800.932.1555
Fax: 913-962-1806
Contact: Brent Scott

Thank you for your continued support.