

MG-TV Video Solutions



MG-TV



Multi Generation TV (MG-TV)

MG-TV Live Streaming

MG-TV is a pay TV operator solution that gives consumers a live TV service delivered to a device that best fits their lifestyle. MG-TV supports all major consumer devices as well as the option for a set top box, the IS-5045W6, for your customers who desire a traditional TV experience.

The MG-TV Live Streaming solution from Innovative Systems is scalable from hundreds of end-users to 100,000+ by utilizing the CDN Features of InnoStream.

- Time-shifted viewing to include Restart TV, VOD, and cDVR
- InnoCryption CA/DRM for Streaming
- Enhanced guide data
- InnoCoder Transcoder/Encoder
- Reduces the vendor supply chain by providing key streaming solution components

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“Our proximity to a metropolitan market requires that we deliver a video product like MG-TV that can compare feature-wise with national cable providers.”

Matt Knegendorf, Baldwin Lightstream-WI

“Currently, we offer IPTV customers the flexibility to access both traditional and streaming services on their accounts, thanks to our Innovative Systems MG-TV solution.”

Laura Biel, Consolidated Telcom-ND

Live Streaming

Consumers are watching more video than ever. The lines have blurred around how they receive their video, the experience is more important.

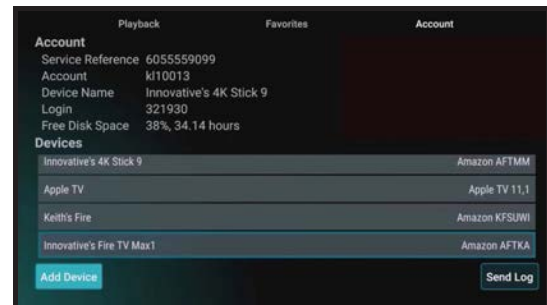
Responsive Program Guide



Customers used to the MG-TV IPTV guide will be hard-pressed to notice the difference.

- Lightning-Fast Scrolling
- Intuitive Menus
- Voice-Activated Search
- Linear or app-Based Navigation

No-Touch customer Care



Lengthy video installations are over! Your customers can self-install their devices.

- Consumers can bring their Own Devices
- In-Home New Device Activation
- Deliver App and Credentials Electronically

Device Options

Bring Your Own Device

- Let customers choose their own device.
- Apple TV
 - Android TV
 - Amazon Fire TV
 - Roku
 - Smartphones and Tablets

Mobile Recording Management

Using the MyTVs, App customers can set and manage their recordings anyplace-anytime.

- Consumer downloads the app from app store
- Customizable App Icon



IS-5045W6

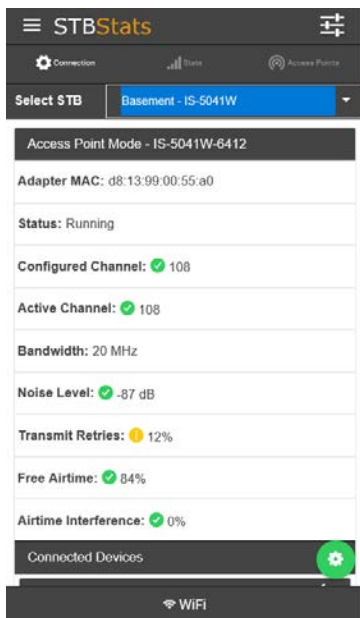
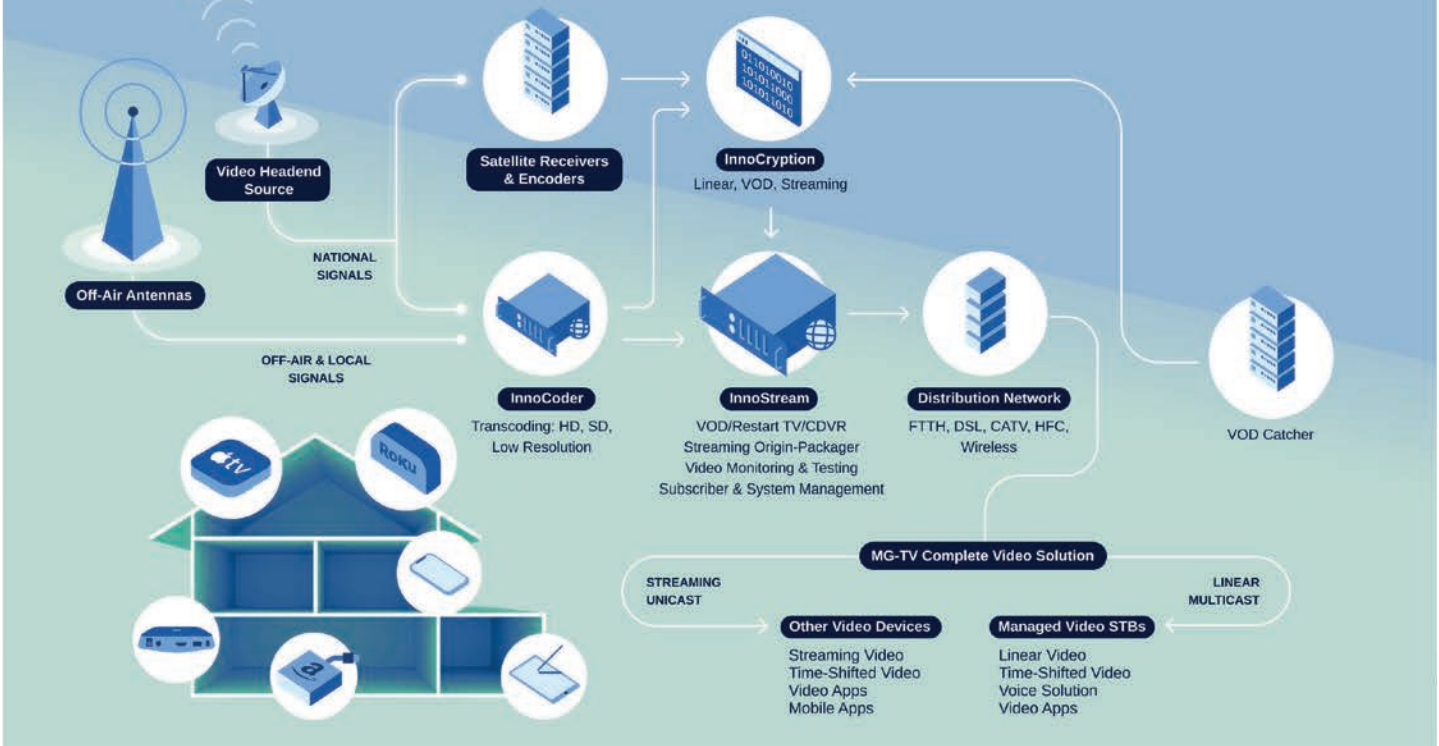
Same tested and reliable features as the IS-5041W and more.

- Supports MG-TV IPTV and Live Streaming in Routed Mode
- Same smaller form factor as IS-5041
- WiFi6 compatible
- S/PDIF Optical connector



MG-TV Supports Live Streaming and IPTV

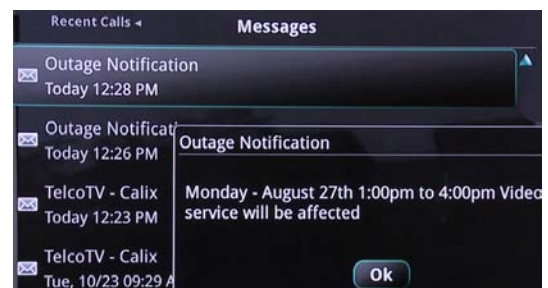
MG-TV provides the functionality desired by consumers today without alienating end-users that desire a more traditional interface and remote controls. It includes service provider options for a conventional video solution, Live Streaming, or both - on one integrated platform.



MG-TV Support Tools

No additional hardware or software needed to quickly resolve customer service issues.

- Virtual Remote
- STB Monitor and Control App
- System Messaging



MG-TV - Powered by the InnoStream Platform

Everything you need on One Platform



The one-platform InnoStream™ from Innovative Systems, provides more critical services than any other video vendor.

Redundancy

- Dual Control Servers
- Media Content Diversity
- Redundant Power Supply per Server

Fault Resilient

- No single failure takes the system down
- Expansions can happen on live servers
- Disks can be hot swapped without system outages

Security

- Dual Hot Swappable 110V AC Power Supplies
- Regular OS upgrades deliver critical security patches that close known vulnerabilities

Scalability

- An InnoStream™ System includes two units with integrated control and up to 480 TB of Storage
- Additional System shelves can be added as you grow



"Upon seeing the tight integration between the Innovative Systems billing and video systems our team liked the efficiency and the cost savings of having one vendor for these two solutions."

Hannah Moore, CNSNEXT, GA

Services Available on the InnoStream Server Platform

Video Middleware

The best customer experience in the industry includes guide data, apps, recordings, and mobility.

InnoEncryption

This systematic approach to Conditional Access (CA) and Digital Rights Management (DRM) for digital media uses the foundation of Secure TV and integrates into our Middleware product by using the InnoStream platform. Widevine™ and FairPlay are supported on consumer streaming devices.

Video on Demand and C3

VOD provides your viewers with an OTT on-demand type of experience and offering local VOD content can differentiate your service.

Cloud DVR (cDVR)

This network-based storage does not require a home DVR. Save on DVR expenditures, reduce truck rolls, and eliminate STB installation expenses. Teamed with Lookback TV, recordings can be started at the beginning that allows DVR watchers to not miss a second of the show.

Ad Insertion

An application that inserts local advertising in channel content and provides advertisers to target local ads based on geographical location. Enhanced Ad Insertion allows a seamless transition from content to ads for live and on demand streaming service

Lookback TV

Subscribers can "Lookback" up to 72 hours and view or record just missed TV. Restarting live shows in progress and pause live TV are also part of this feature set.

Streaming Packager

This service is necessary if you want to provide your subscribers live TV streaming over your managed data connection.

Enhanced Guide Data Processing

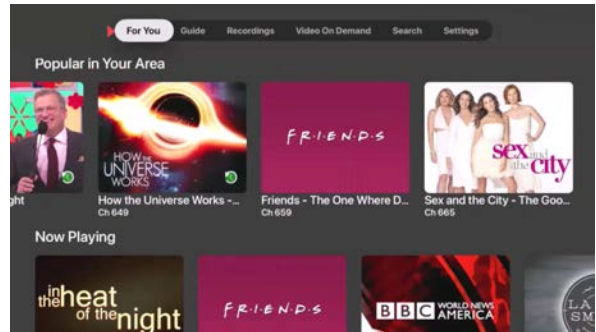
Enhanced Guide Data Processing provides greater poster coverage, advanced guide data, reduction of a vendor relationship, and a simple, straightforward pricing model.

For Customers The Experience Matters

Consumers Desire Easy Navigation

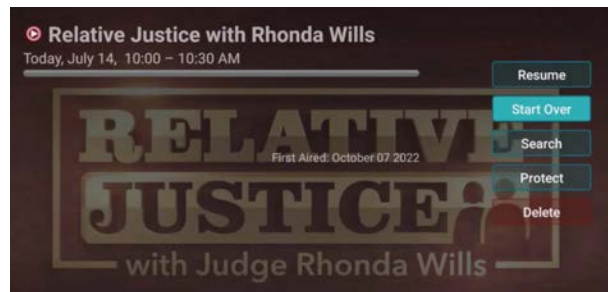
Traditional and For You Recommendation Engine

- For You provides posters, Your Favorites, Most Popular, Local Weather, Recent Recordings, and more.
- The Traditional Linear Guide has the same look and feel as the MG-TV IPTV guide solution.



Time-Shifted Viewing

- Restart TV
- Pause Live TV
- Rewind and Fast Forwarding
- Managed Cloud DVR for monetization



The MG-TV Difference

Innovative Systems understands the demographic challenges that video operations face. MG-TV addresses this issue with our IS-5045W6 Set Top Box, which offers providers a seamless transition from IPTV to Live Streaming. Consumers have the option to use a traditional remote for full feature functionality or to utilize their preferred consumer devices.

- IS-5045W6
- Apple
- Amazon
- Android TV
- Roku
- Mobile Devices and Tablets

Account Information	Channels	Devices	Purchased
Devices			
Whole Home Group: 1			
ISQA 4K STICK	Amazon AFTKA		
Amazon AFTKRT	Amazon AFTKRT		
Amazon AFTMA08C15	Amazon AFTMA08...		
ISQA Gen3 Stick	Amazon AFTSSS		
Innovative's Fire TV ...	Amazon AFTT		
Apple TV new	Apple TV 14,1		
10008	InnovCloudDVR		
Office	IS-5045W		
samsung SM-X200	SM-X200		

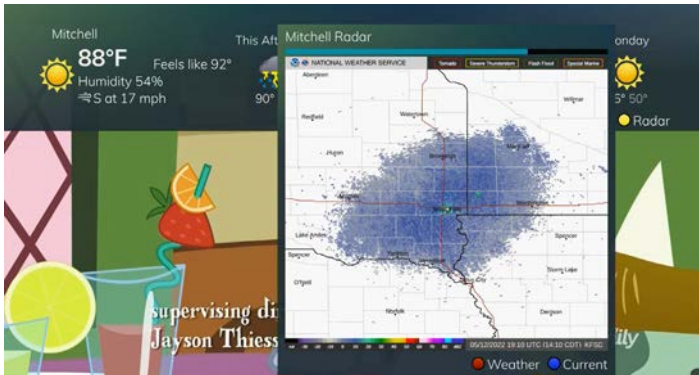
Monitor consumer streaming devices to determine whether or not they are currently active in a subscriber's account.



"We used to watch a lot of Prime, and Netflix, but when our Coop offered streaming of their full channel lineup on our Amazon Firestick we use the DVR and Restart TV and spend more time watching that instead."

**Satisfied Customer,
Santel Communications, SD**

User Features With Set Top Box



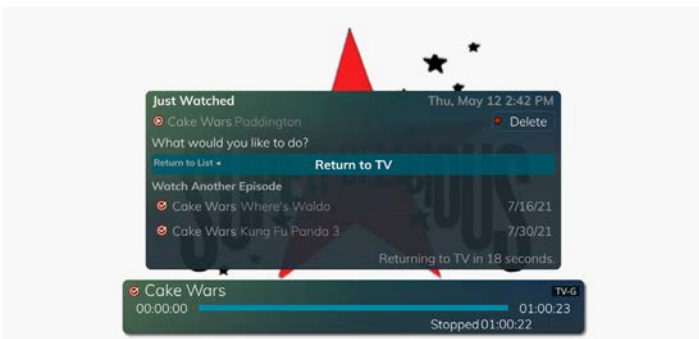
Weather App

Current weather conditions and forecasts as well as animated radar are one button away with the Weather App. Weather data from NOAA XML feeds, and Canadian government weather stations are supported.



Now Playing Feature

Give your subscribers a quick snapshot of what's happening on their video service; all they have to do is press OK on the remote.



Binge Mode Playback

Customers have the option of playing the next episode of a series recording without having to go back to the recording list.

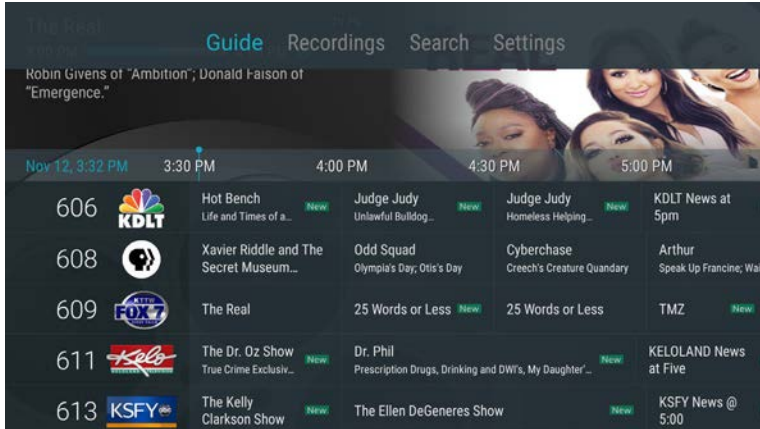


Restore Deleted Recording

Reduce support calls from customers who want you to restore recordings that they have accidentally deleted.

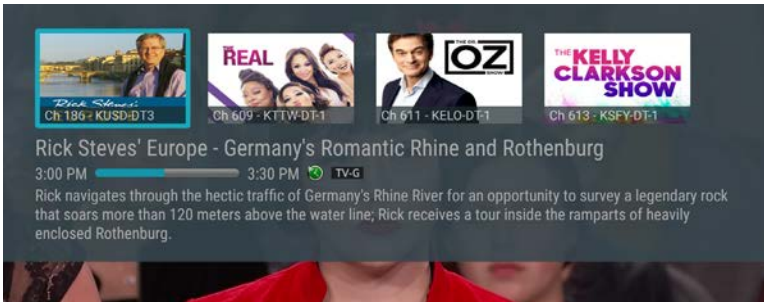
Consumer Device User Features

MG-TV supports most of the newer Amazon, Apple and Roku platforms.



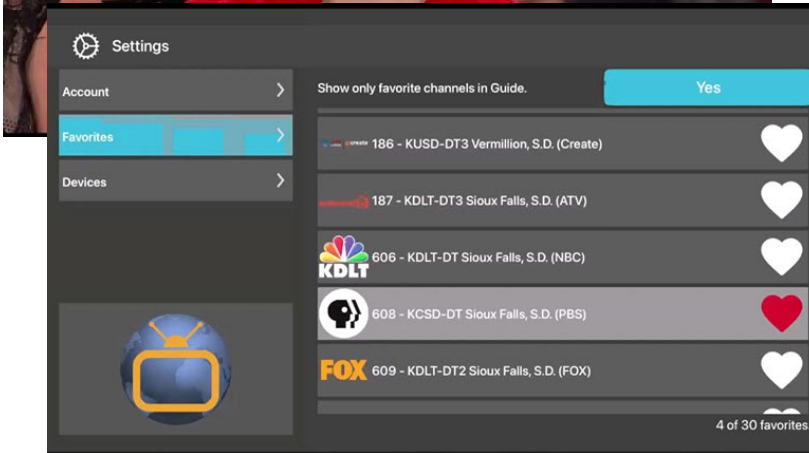
User Friendly Guide

- In-Guide Live Video
- Easy to Read Channel Numbers
- New program identifiers
- Easy Access to Recordings and Search
- Quick Guide Access to Your Favorites
- Progress Bar Display
- Parental Rating



App Store Accessible

- Amazon
- Google Play
- Apple App Store



Customer Care Tools

- Creation of Favorite List
- System Device Report
- Self-Credentialing for New Devices



"The video hardware and software from Innovative Systems does a great job of bringing OTT centric features into our subscription video service, and when they have a new feature for us to deploy, it just works."

Jason Miller, General Manager,
DTC Telecom, Delhi, NY

Support Tools

Integrated Subscriber Management Tools Improve Support Efficiency

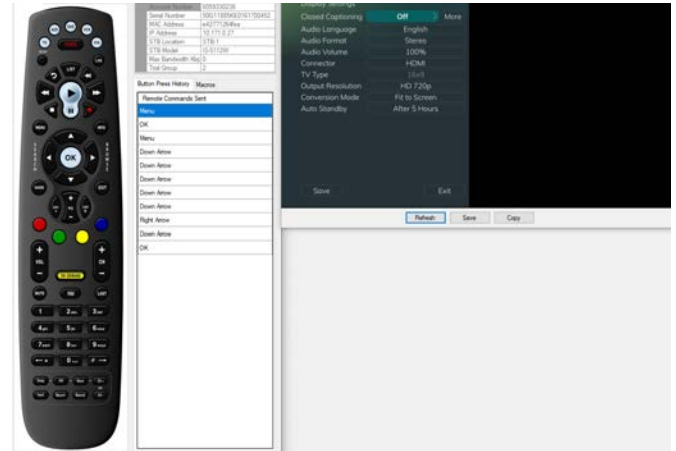
This single-vendor solution efficiently addresses customer service questions. Account management and diagnostic screens allow for quick provisioning and deployment of services with minimal training time.

Most subscribers have multiple set top boxes in the home, and the subscriber management system can automatically “ping” the subscriber’s STBs to quickly identify a STB that isn’t able to respond to the ping.

Easy Report Creation

Drag and drop reports allow administrators flexibility in creating customized data sets. The search parameters can be saved for future use.

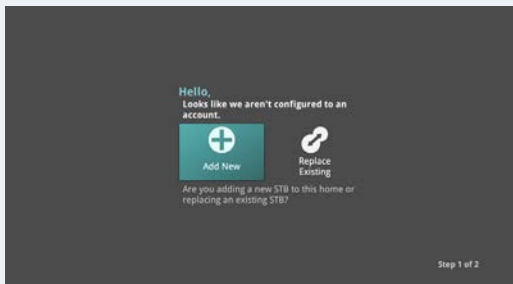
Virtual Remote™



The majority of video issues your customers have involve the remote control. With the Virtual Remote™, your support team can take control of a customer’s remote and walk them through the program guide or help them change their settings, thus eliminating the need for a costly service call.

Backup/Restore STB Settings

These settings give service providers the ability to back up or restore all STB settings in the case of a DVR/STB swap out.



Channel Stats

This tool is used to determine peak times and days that your customers are viewing channels. Statistics are exportable to spreadsheets and graphs and useful for content negotiations and future channel additions or removals.

Channels	Fall 2022	Summer 2022	Spring 2022	Winter 2021-22
1. CBS	48.26	40.48	49.08	59.23
2. NBC	47.87	39.08	43.90	59.29
3. ABC	33.40	31.69	33.88	33.24
4. Fox News	27.99	27.84	30.61	28.39
5. Fox	22.45	13.22	16.67	25.56
6. ESPN	12.17	7.29	8.08	11.49
7. Hallmark Channel	10.47	9.73	9.29	12.28
8. TV Land	9.82	9.38	10.74	12.98
9. MSNBC	9.40	8.99	7.50	7.91
10. Regional Sports Nets	9.14	16.51	11.82	3.64
11. Game Show	8.57	10.72	9.62	8.55
12. INSP	8.44	8.92	8.82	10.30
13. PBS	8.13	7.04	6.63	7.52
14. Paramount Network	8.15	7.16	6.80	11.90
15. Grit	8.11	9.02	10.12	9.81
16. ME TV	7.96	8.53	8.73	9.45
17. USA Network	7.94	7.59	7.70	11.03
18. HGTV	7.87	8.17	8.62	9.81
19. CNB	6.46	6.61	8.18	7.63
20. News Nation-WGN	6.33	7.34	6.05	6.12

IS-5045W6

Building on the success of the IS-5112W and IS-5041W, we're excited to enhance our new WiFi Set Top Box for even greater network efficiency!



We Listened

The entry into the STB marketplace was generated by customer demand for additional options and increased reliability in Wi-Fi deployments."

Remote Control

Innovative Systems Supported Remote Controls

Reliable and field-tested for your customers who desire a full-sized, feature-rich experience.

Polaris Remote Features

- Modeless - No Power Key
- Illuminated Keypad
- Large Numeric Digits
- Ample Space Between Keys
- Permanent Code Retention
- Fully Backlit Keypad



Potenza Remote Features

- Quick Setup STB Codes
- Easy Access Device Selector
- EPG - Matching Color Codes
- List Button for Recording Management
- Day+/- Guide Access Button
- FAV Button for Your Favorite Channels



Logan RF Remote Features

- ABS Blacktop Housing
- Automatic Pairing to IS-5041, 5045 STBs
- 37 Physical Keys
- Low Battery Detection
- 18-Month Average Battery Use Life



InnoCoder T-60



Linear & ABR Encoding /Transcoding

- Encode / Transcode
- Simultaneous Interaction with ABR & IPTV Solutions
 - ABR Profiles (Maximum Six Profiles)
- Bandwidth Consolidation DTA-VBR to CBR
- Music Channel Encoding to ABR Formatting

Innovative Systems Transcoding & Encoding

Video Feeds

- MPEG2
- H.264
- H.265
- Music

File-Based Videos Assets

- Cloud DVR
- Video On Demand
- Playback Formatting

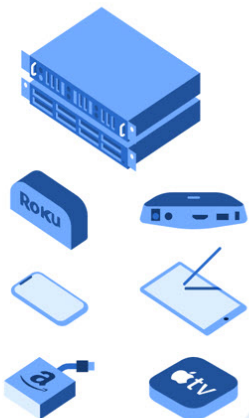
Transcoding & Encoding



InnoCoder T-60

- Simultaneous IPTV & ABR
- Music Channel ABR Transcoding
- Bandwidth Consolidation
- To HEVC Transcoding
- File-Based Transcoding
- Multiple ABR Profiles

MG-TV Solution



MG-TV Device Facts



OTT Device Support

Mobile Devices

- Android 7.1 Minimum Version
- IOS 12 Minimum Version

Amazon Fire - 1st, 2nd, and 3rd Gen

- Newer Models may work, but not guaranteed.

Roku - Express, Premiere, Ultra, newer Sticks

- Newer Models may work, but not guaranteed.

AndroidTV - nVidla Shield TV, MiBox S (MDZ-22-AB),

Two Stream 4k, Google Chromecast with Google TV

- Newer Models may work, but not guaranteed.

Apple TV - 1st, 2nd, 3rd, and 4th Gen

Roku

amazon



STBs Supported

- Innovative Systems: IS-5112W, IS-5041W, IS-5045W6
- Amino (Entone): 530, 140, 540, 150, 550 and 5050 (LIVE), Kamai 500, Amulet 505, Kamai/Amulet 65X, Kamai/Amulet 45X, Kamai 7B and 7X
- ADB: 2721W, 2721WX, 3721, 1720W, 1761W, and 1761WF
- Delivers 4K content with supporting STBs
- Integrated WiFi for OTT Applications



We believe that video will eventually transition over to an all-streaming delivery, and the IS-5045W6 will allow customers to use the same remote and STB regardless of how video is delivered to them.

Jayson Keiper, Comm1, Kanawha, IA

QUOTES

"Having the ability to quickly ramp up an app-based HLS video streaming product without more vendors and equipment makes the most sense, and that is why we chose the Innovative MG-TV solution as a replacement for our legacy cable system."

Jarrod Hardin, Foothills Communications, Staffordsville, KY

"It's great to have one company to work with to roll out the whole video ecosystem."

Ryan McClinchey, HuronTel, Ontario, Canada

Converting to the MG-TV linear IPTV solution, has made us more competitive with features like Restart TV, the Weather App, and What's Hot. Having several satisfied operators in our region who are using the Innovative Systems video service made the decision to switch easier.

Dave Sevrin, RCTA, Rockwell, IA

"When you have older customers a video tutorial learning tool makes it much easier. We appreciate them as an added value from Innovative Systems to their video operators."

Brandon Rupp, Pine-Net, OK

"70% of our video trouble calls are handled using the Virtual Remote™, and when you have over 7000 set top boxes to manage, that is a huge money saver."

Andy Hulscher, Alliance Communications, Garretson, SD

"The switch to MG-TV makes technical management much easier compared to our previous vendor."

Bob Blunck, RTC Networks, Parshall, ND

