



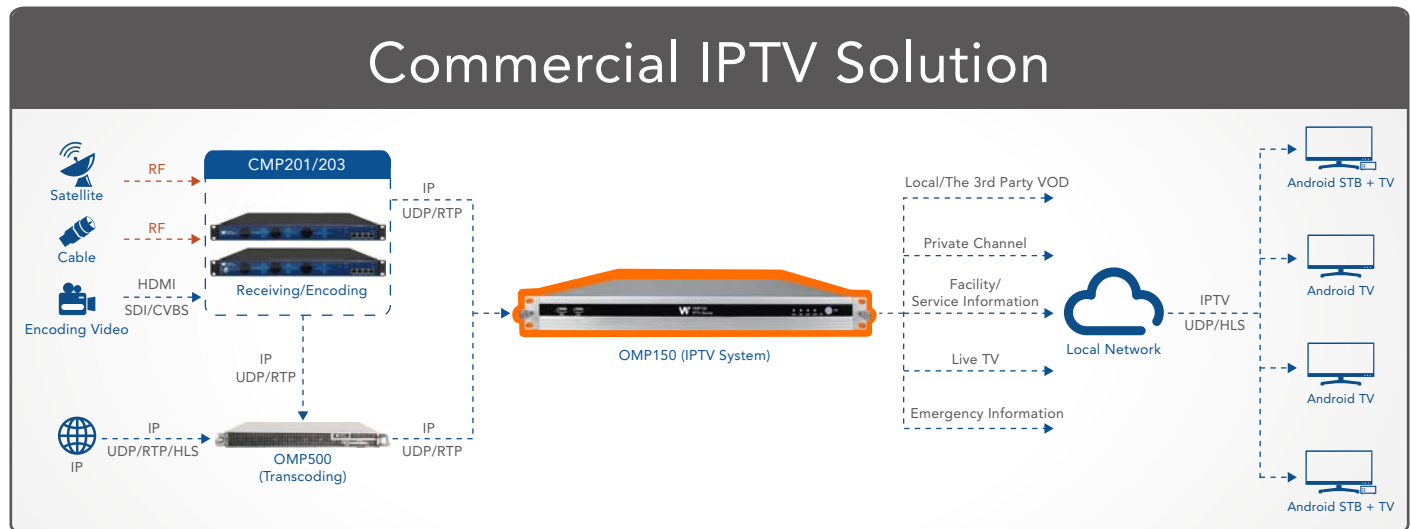
## INTRODUCTION

The OMP150 IPTV system is an intuitive yet powerful solution for centralized management of Android-based set-top boxes. With increasing popularity of IPTV technology, OMP150 is perfect for hospitality, education, government, or any facility looking to play IP videos across multiple televisions. It can be easily customized to access to live channels, video-on-demand assets, and digital signage using a simplified web-interface. Made possible by OMP150's APK software (Android app), single powerful OMP150 server supports up to 4000 STB over the network. OMP150 allows the facility to update high-quality images and customize messages from the head-end without the hassle of visiting each STB location. It maximizes return-on-investment (ROI) by incorporating house channels, advertisements, and other relevant information at the television as viewers interact via a hand-held remote.

## FEATURES

- Play back live IP video services using industry standards of UDP and RTP, and HLS protocols
- Control the "Channel Lineup" and customize the order of up to 100 live channels
- Centralize management and content permission to control up to 4000 STB in the local area network
- Customize logos, branding, welcome pages, and introduction messages to maximize viewer impression and ROI
- Provide native support for uploading 1080p.MP4 video files for VOD/On-Demand style playback
  - House Channels / Marketing Videos / Recorded Powerpoint Presentations
  - Partner Advertisements
  - Pre-recorded Movies and Television programmes
- Support integration of third-party VOD systems
- Provide a user-friendly web-interface to control the OMP150 server remotely (no more standing in noisy equipment rooms)
- Remotely administer software updates and user-experience changes on the STB (no need to visit each television/STB location to make changes)
- Modern APK software player to run on the IPTV STB and most Android-based STB

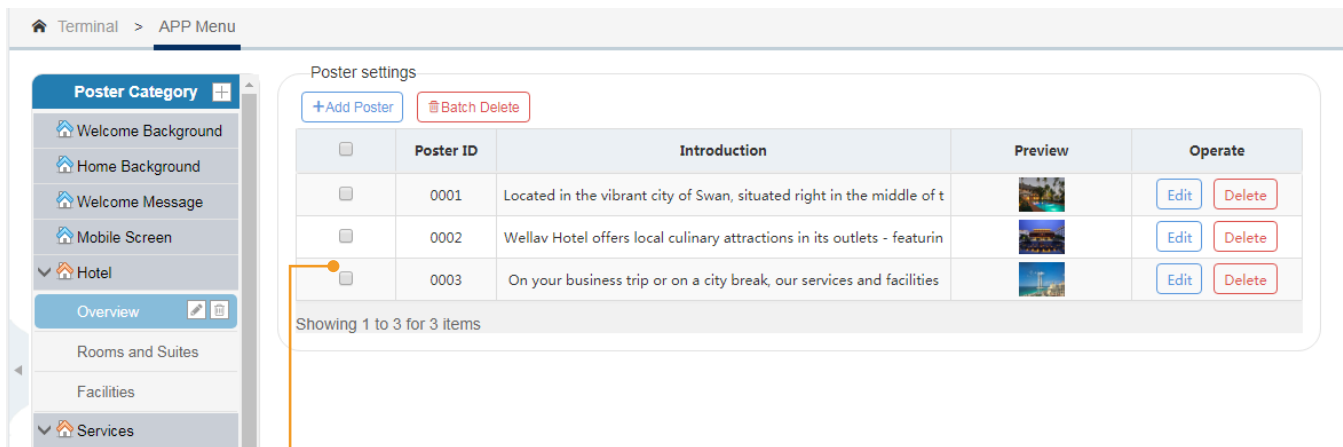
## SYSTEM DIAGRAM



## SPECIFICATIONS

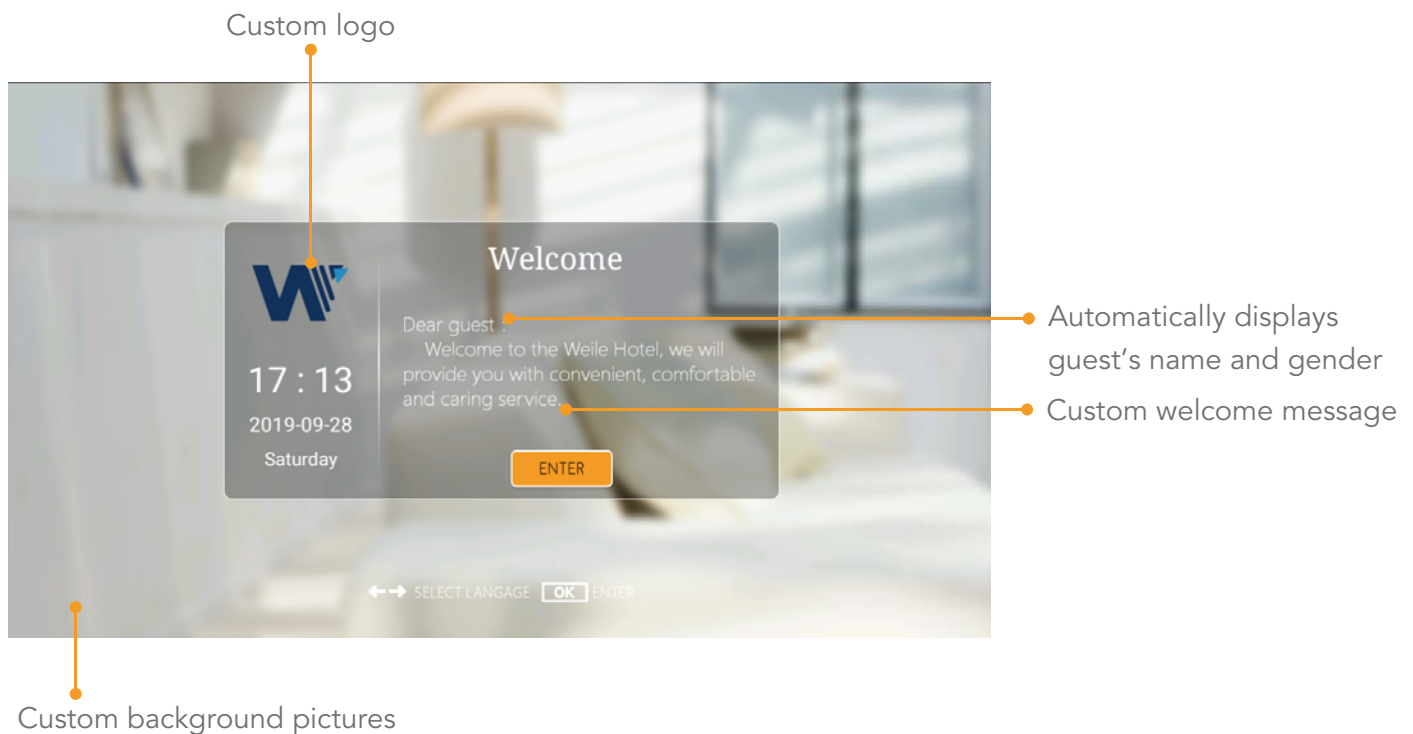
Inputs	
Interface	RJ45, 100/1000/100000M Auto-Negotiate 10G SFP+
Input Protocols	UDP/RTP/RTSP/HLS
IP Addressing	Unicast, Multicast, OTT URL
IGMP Support	Version 1, 2, and 3
IP Encapsulation	1 to 7 TS Packets per IP Packet
Outputs	
Interface	RJ45, 100/1000/10000M Auto-Negotiate 10G SFP+
Output Protocols	UDP/RTP/HLS
Systems	
OMP150-00/01: 6 x RJ45 10/1000M Auto-Negotiated Ethernet Ports	
OMP150-02: 2 x RJ45 10/1000M + 2 x SFP+ Ports. The 10-Gig switch in network is necessary	
OMP150-03: 2 x RJ45 100/1000M +4xSFP+ Ports. The 10-Gig switch in network is necessary	
Web-based network management & software upgrade	
Physical & Environment	
Chassis Dimension (W x H x D)	OMP150-00: 440mm x 44mm x 285mm (17.32" x 1.73" x 11.22") OMP150-01: 670mm x 45mm x 425mm (26.4" x 1.77" x 16.7") OMP150-02: 670mm x 45mm x 425mm (26.4" x 1.77" x 16.7") OMP150-03: 754mm x 43mm x 437mm (29.69" x 1.7" x 17.2" )
Weight	OMP150-00: 3.66 kg (8.07 lb) OMP150-01: 9.55 kg (21.05 lb) OMP150-02: 9.55 kg (21.05 lb) OMP150-03: 18.6 kg (41lb)
Power	OMP150-00: 110-220V VAC/50-60Hz Max. 60W OMP150-01: AC 100V-240V/50-60Hz Max. 350W OMP150-02: AC 100V-240V/50-60Hz Max. 350W; Redundant power supplies OMP150-03: AC 100V-240V/50-60Hz Max. 750W; Redundant power supplies
Operation Temperature	OMP150-00: -10°C~60°C (14°F~140°F) OMP150-01: 5°C~35°C (41°F~95°F) OMP150-02/03: 5°C~40°C (41°F~104°F)
Storage Temperature	OMP150-00: -20°C~70°C (-4°F~158°F) OMP150-01: -40°C~70°C (-40°F~158°F) OMP150-02/03: -40°C~70°C (-40°F~158°F)

## USER-FRIENDLY WEB GUI

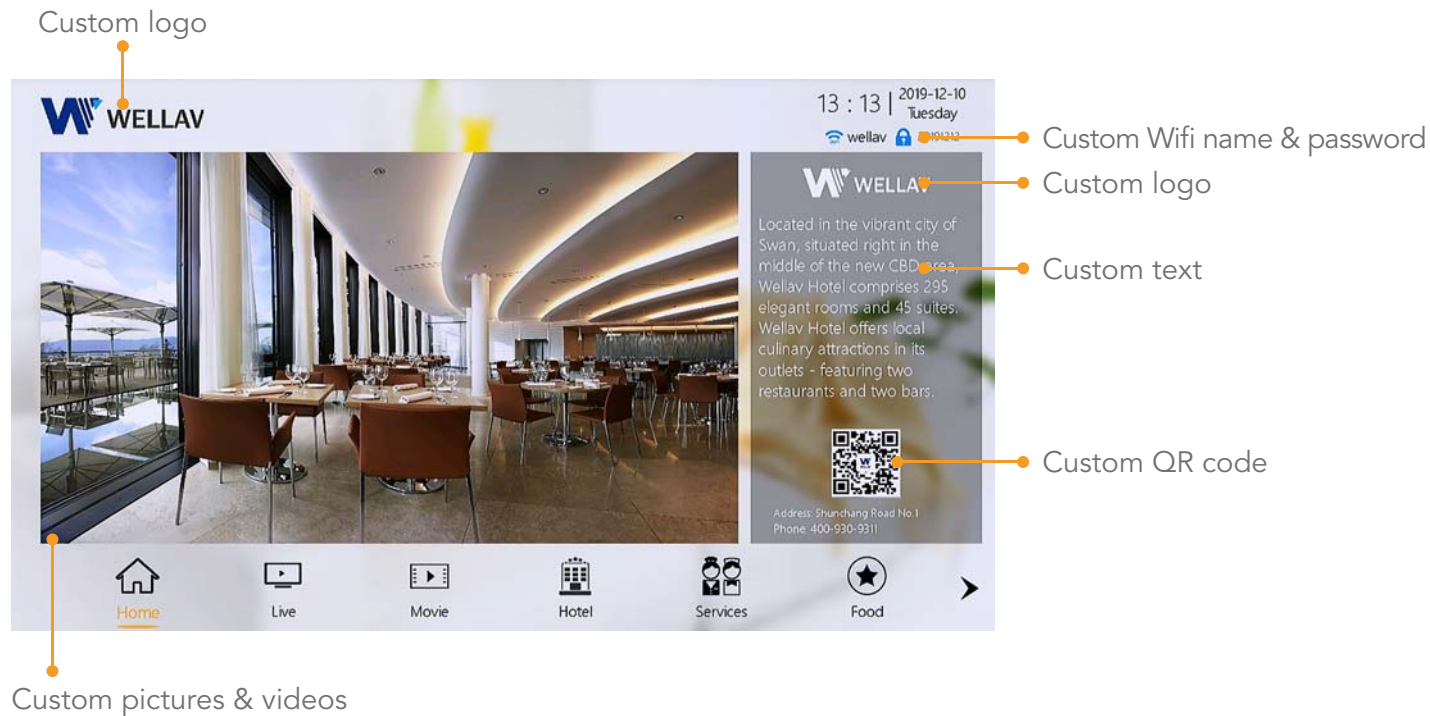


Straightforward and easy-to-use  
Custom menu, pages and contents for different uses

## WELCOME PAGE



## HOMEPAGE



## LIVE

- OMP150 server receives and re-orders up to 100 live unencrypted UDP/RTP services
- Multicast/Unicast "IPTV" Transport Streams, or HLS/RTSP protocol URL's with Transport Stream payload
- OMP150 server is fully compatible with CMP200 and CMP100 chassis for converting off-air antenna signals, Cable TV, or Satellite into IPTV (UDP/Multicast)



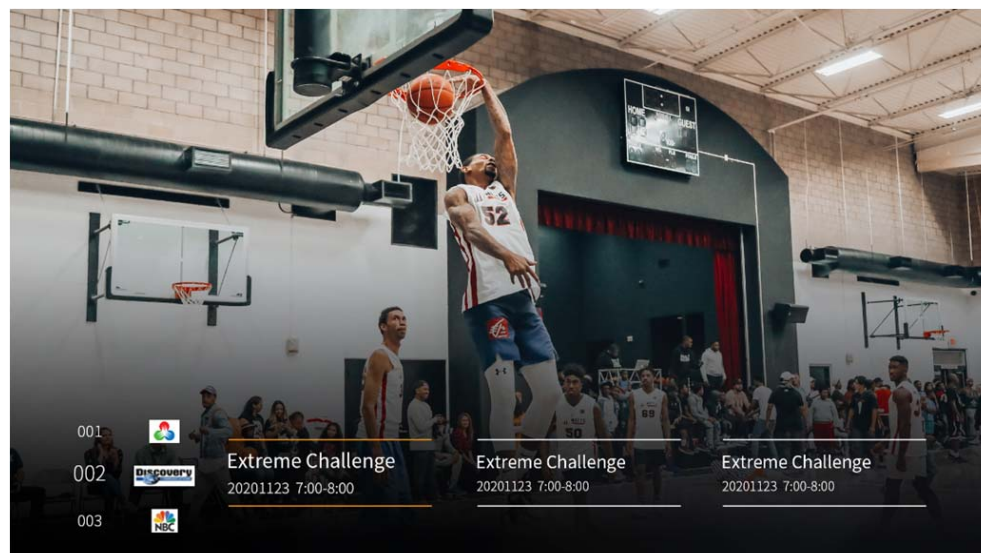
- OMP150 Server is fully compatible with Impulse Streaming Kit for broadcasting on-site events over WiFi, On-premise IPTV, or even internet streaming to any RTMP destination (Youtube, Facebook Live, Twitch, Ustream, etc.)
- OMP150 Server supports closed caption display when available



## INTERACTIVE EPG

Straightforward EPG display

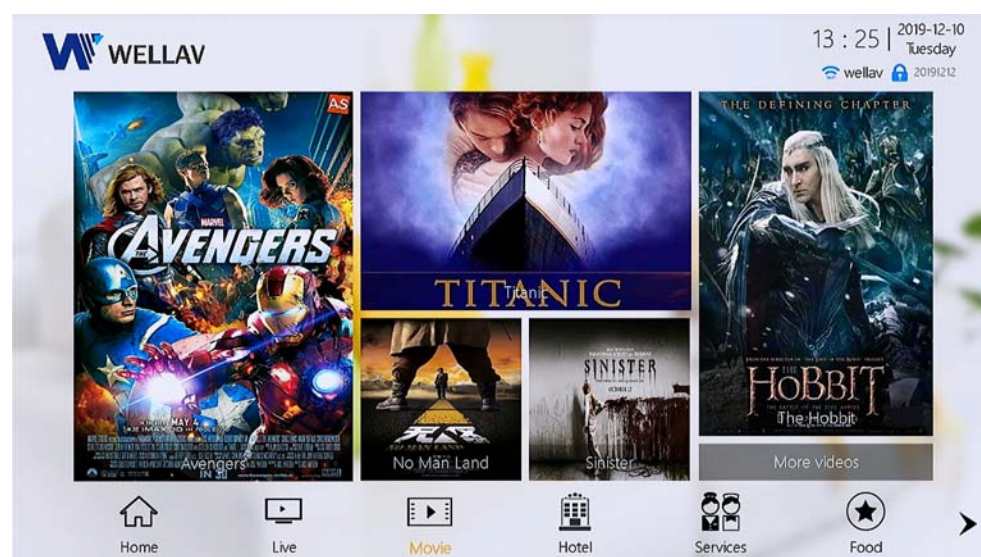
Supports integration with EPG providers



## LOCAL VOD

Supports local programs creation for VOD

Supports sorting and grouping programs



## THE 3<sup>rd</sup> PARTY VOD

supports the 3<sup>rd</sup> party SVOD such as YouTube, NETFLIX, HBO and more.




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## SERVICES

Quick guide for hotel guests to use hotel services  
Promote amenities and additional offerings to drive ROI



Customizable modules for advertisements

## ORDER INFORMATION

Model	Description
<b>IPTV Platform</b>	
OMP150-00	Basic package including hardware and software with basic features including live channel streaming, channel lineup, entry for 4 APPs, user-defined welcome/home page, user-defined menu options. Support two modes: Unicast (HLS) mode: support up to 50 live SD/HD channels and 300 devices. Multicast mode: support up to 100 channels and 500 devices ("send channel list only" mode).
OMP150-01	Standard package including hardware and software with basic features including live channel streaming, channel lineup, entry for 4 APPs, user-defined welcome/home page, user-defined menu options. Support local VOD (additional license required). Support two modes: Unicast (HLS) mode: support up to 60 live SD/HD channels and 500 devices. Multicast mode: support up to 100 channels and 1000 devices ("send channel list only" mode)
OMP150-02	Premium package including hardware and software with basic features including live channel streaming, channel lineup, entry for 4 APPs, user-defined welcome/home page, user-defined menu options. Support local VOD (additional license required). Support two modes: Unicast (HLS) mode: support up to 80 live SD/HD channels and 2000 devices. Multicast mode: support up to 200 channels and 4000 devices ("send channel list only" mode)
OMP150-03	Premium package including hardware and software with basic features including live channel streaming, channel lineup, entry for 4 APPs, user-defined welcome/home page, user-defined menu options. Support local VOD (additional license required). Support two modes: Unicast(HLS) mode: support up to 100 live SD/HD channels and 4000 devices. Multicast mode: support up to 200 channels and 10000 devices ("send channel list only" mode)
<b>Terminals</b>	
WHD8000E	Android IPTV STB supports H.264/MPEG-2 HD/SD video and MPEG1L2/AAC/AC3 audio decoding. It works with wellav OMP150 platform only.
WHD8003E	Android IPTV STB supports H.264/H.265 decoding up to 4K@60fps. And supports MPEG1L2/AAC/AC3 audio decoding. It works with Wellav OMP150 platform only.
OMP150-Android-10	License for 10 Android-based TV or STB devices
OMP150-Samsung-10	License for 10 Samsung TV devices
<b>Special Function License</b>	
OMP150-VOD	Local VOD
OMP150-PCH	Private channel
OMP150-OLY	OSD/image overlay
OMP150-RCC	Remote content management
OMP150-ATA	Additional 4 third-party APP license
OMP150-DCL	License to create different channel lists for different end users
OMP150-EPG	Interactive EPG
OMP150-SMS	Subscriber management system

\* Attention: Multicast mode requires well-managed IP network (such as configuration of multiple subnets, VLANs, IGMP and etc), while HLS mode can work well in normal network environment without requiring any change on network configuration.