



HYDRA

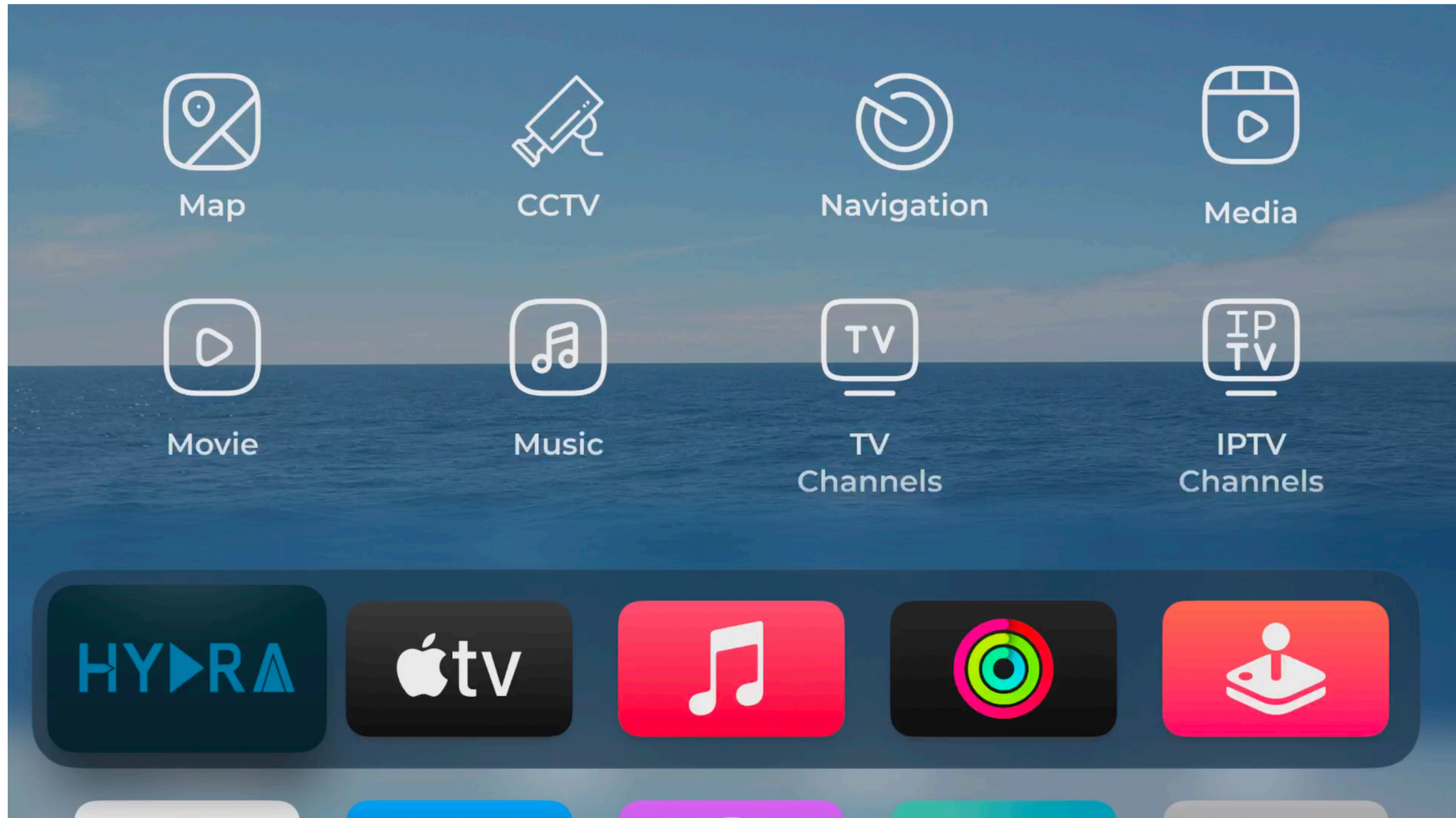
The yacht infotainment hub

Hydra is the App available on the AppleTV App Store designed to be the infotainment hub on board.

Easy to use, it is perfect for Owner, guests and crew.

It works as is with S.M.A.R.T. Server by CNSat.

No extra box in the cabins, no special hardware, just the AppleTV.



HYDRA

Why the Apple TV?

Compared with other solutions (proprietary hardware or SMART TV/ANDROID device) AppleTV is a worldwide standard durable over time hardware, available everywhere with a small price.



“Proprietary hardware” in case of failure in a remote places, it needs to be shipped. Vice-versa AppleTV is available in any electronic store. Everywhere. Install it, download the app and that’s it.

App based on SMART(Android TV) depends on the TV hardware that often is different or country based. In case of failure replace a TV that is not “just a screen”, could be a problem, if the yacht is located in other or remote countries.

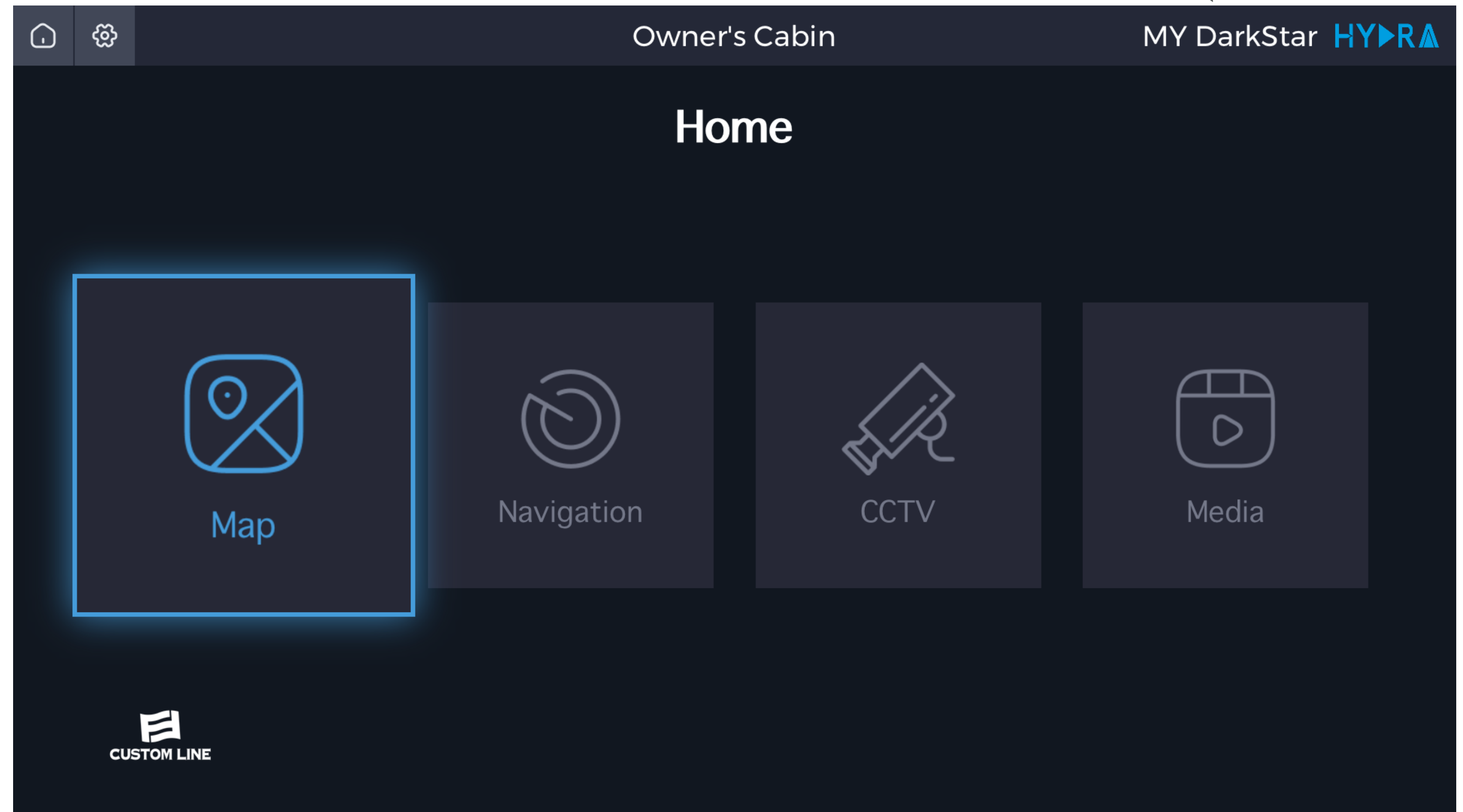
The Dashboard

Position On Board

Name of the Yacht

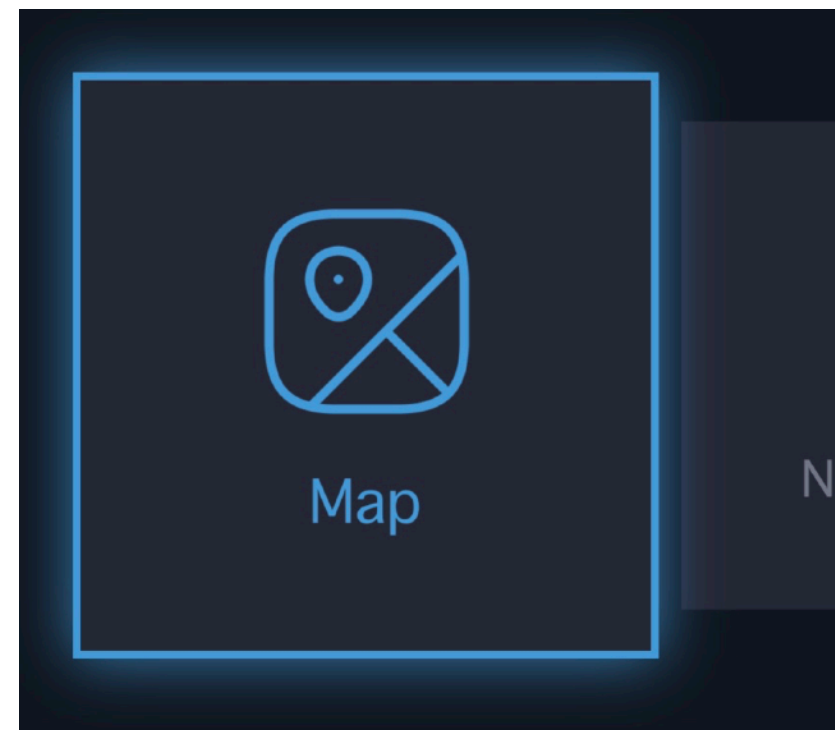
Once launched the App a simple Dashboard is shown.

The Home can be customized with the Logo of the Shipyard (or any kind of logo) the position of the Apple TV on board and the Name of the yacht



Shipyard Logo

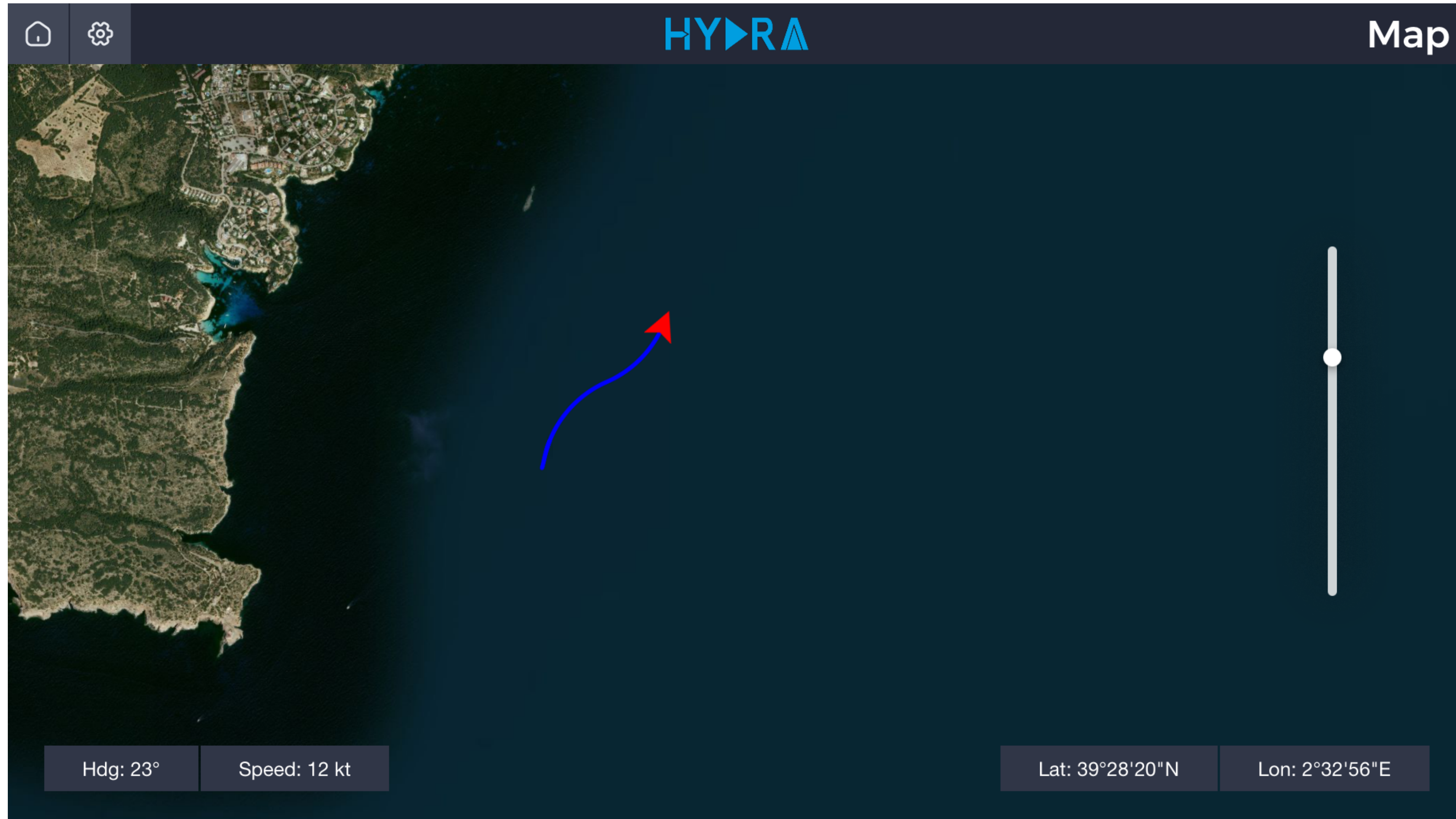


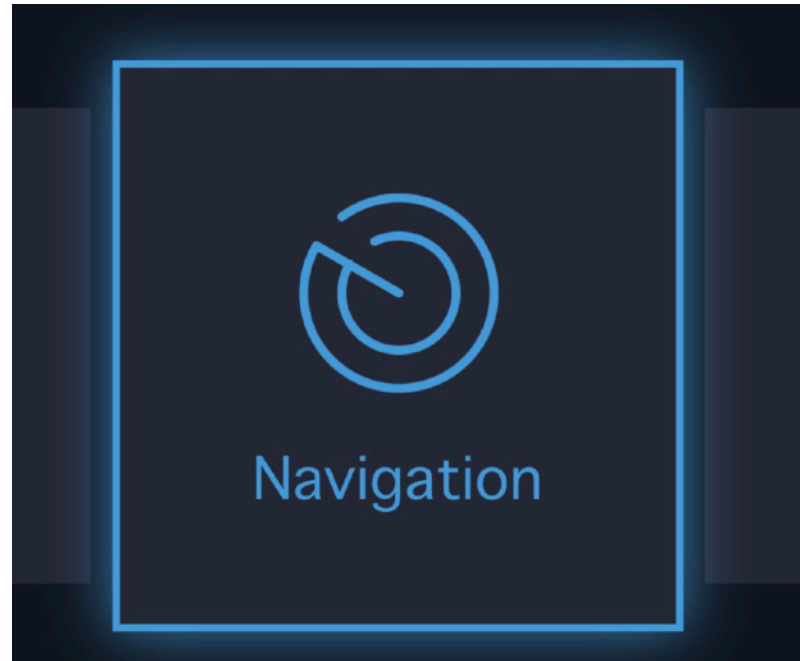


The MAP Button supplies the yacht position on the satellite map with main information such as Heading, Speed and GPS Position

The Map can be browsed Just sliding the thumb on the AppleTV Remote or using the browsing buttons.

The user can Zoom In or Zoom Out or move the map.





The Navigation Data are available just selecting the Button on the Dashboard

It displays a dashboard with the info coming from the NMEA Bus

Selecting the Cockpit icon at the bottom, the display of the wheel house screen can be mirrored fullscreen.

*HDMI Output from MFD is needed, extra hardware is needed.



The screenshot shows the HYDRA navigation interface. At the top left is a home icon and a settings gear. The main display features three large circular gauges: Speed (12 kts), Heading (14°), and a third gauge (164.5°). Below these are three data tables: GPS, LOCATION, and TIME & DATE. At the bottom, there is a 'Water' section and a small map preview. A red dashed line indicates a zoomed-in view of the map area.

GPS		LOCATION		TIME & DATE	
GPS Quality:	3D fix	Lat:	50°28'23"N	UTC:	12:18:44
No of satellites:	4	Long:	1°32'58"E	Date:	19/12/22

Water	
Depth:	10.7 m
Temp:	8.5 °C



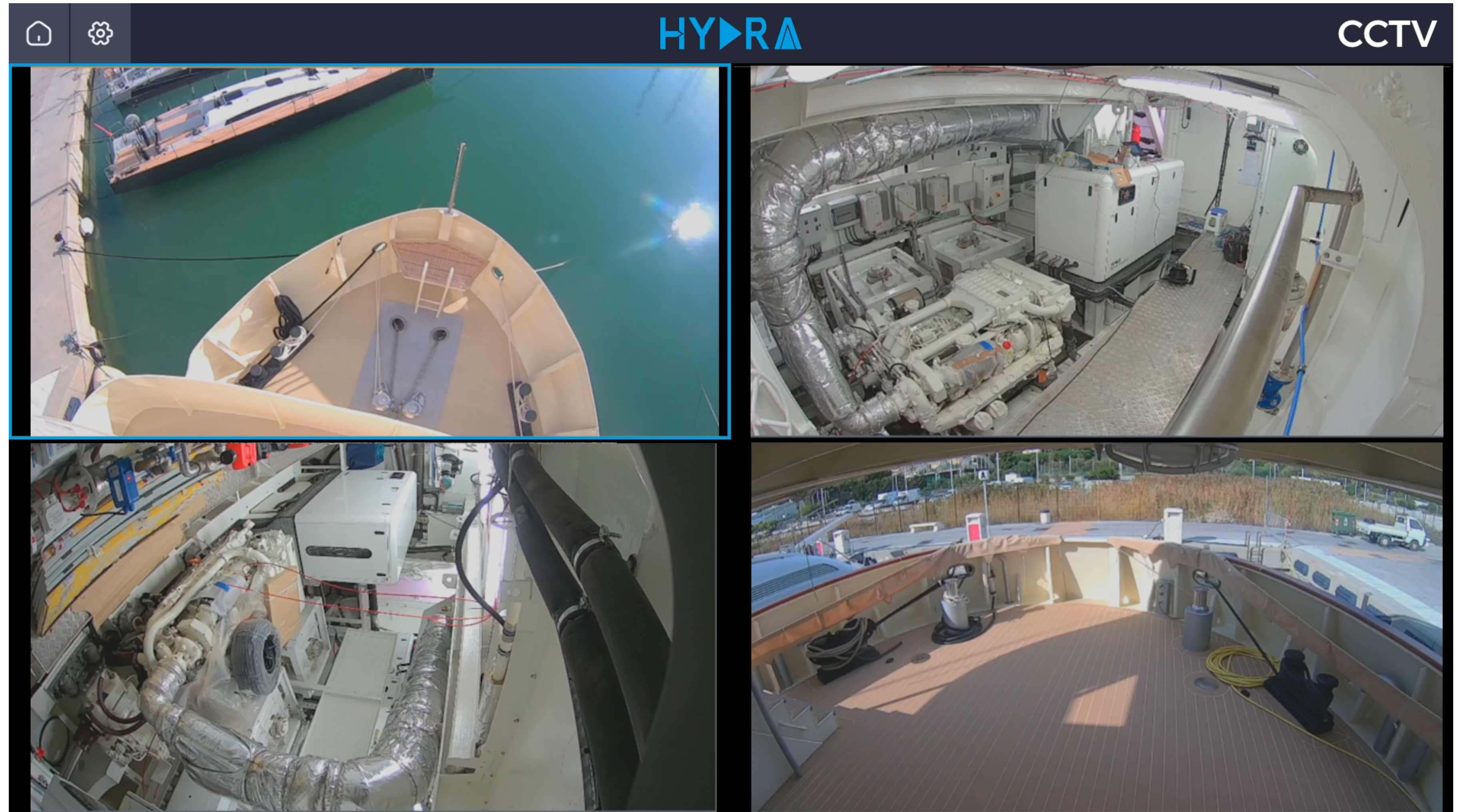


CCTV Page shows the on board cameras.

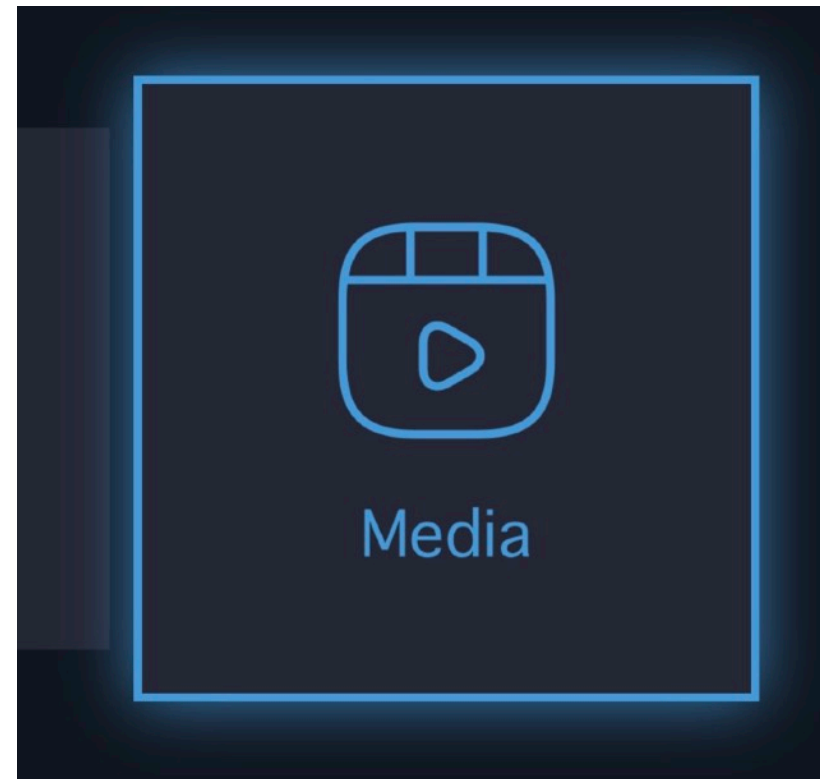
The user can display up to twelve cameras, six per time. You can also select one to fullscreen.

The feature is customizable based on location:

E.g.: Captain Cabin will show also engine room cameras while Guest cabin just the panoramic ones

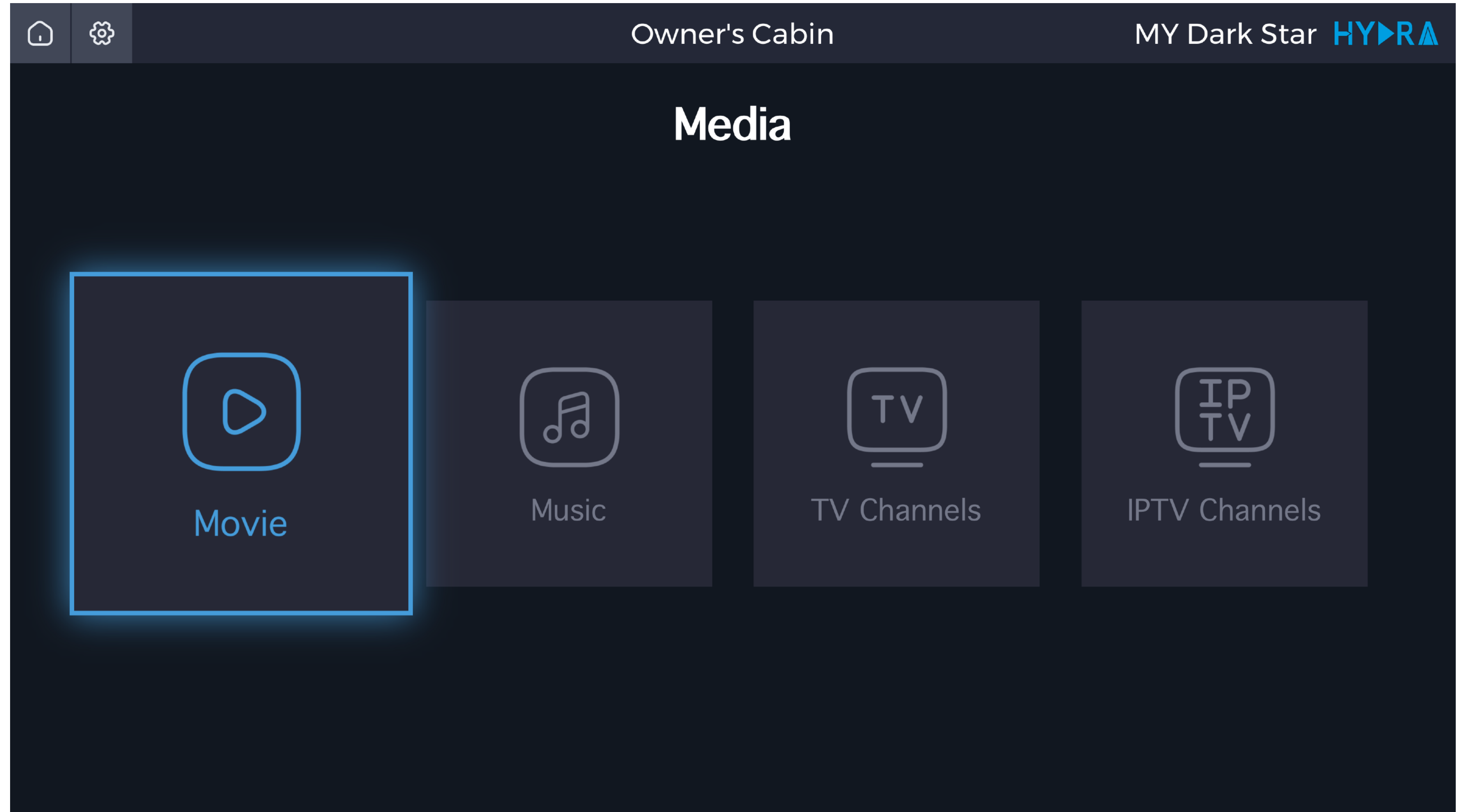


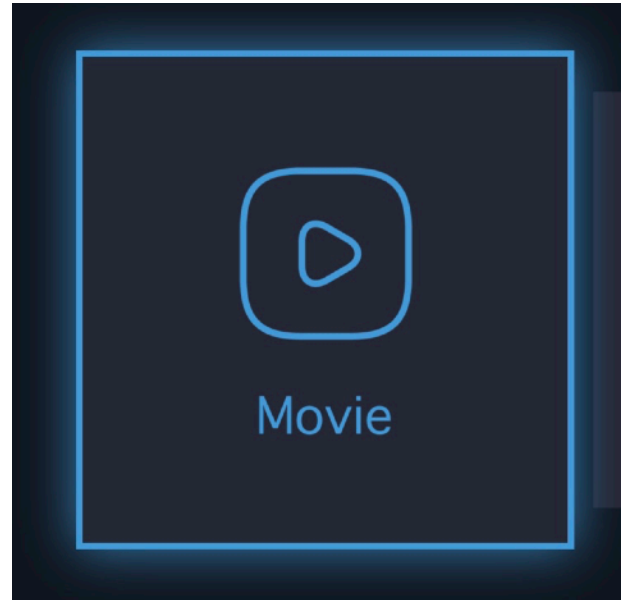
Cameras must be Network IP based.
To use Analog cameras , extra hardware is needed.



Media Button shows a submenu with more options:

- Movies from the Server
- Music From the Server
- TV Channels (Requires STB, Satellite, DTT, IPTV, etc)
- Internet TV (Requires subscription)




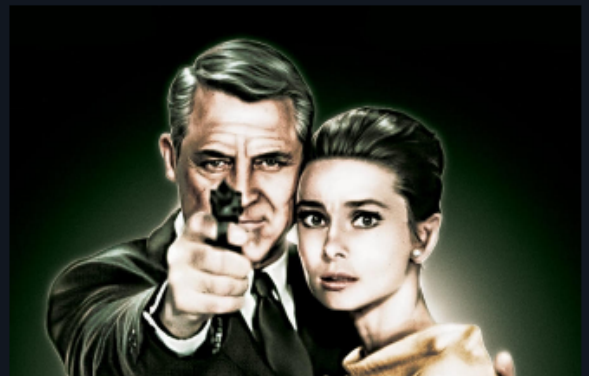



With Movie Button you can browse the films stored in the Server.


Once selected some info about the film is provided.


Home
Settings
Genre
HYDRA
Movies











Home
Settings
HYDRA
Movie

Charade

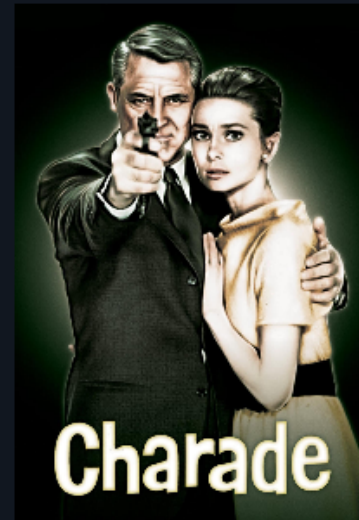
Universal Pictures 1963


In what's been called 'the best Alfred Hitchcock film which he didn't direct,' a man is thrown off a train, and when the police locate his wife, it turns out she knew nothing about him - not even his real name. After her are four men, who insist she's in possession of a huge amount of money which they believe to be theirs. If she doesn't give it to them, she'll be killed.


Duration	05 Minutes	Country	United States of America
Directed By	Stanley Donen	Genre	Thriller, Romance
Written By	Marc Behm, Peter Stone	Rating	Passed


PLAY


Related Movies



 Charade 1963



 Beat the D... 1953



 Dementia... 1963


 The Driller... 1979

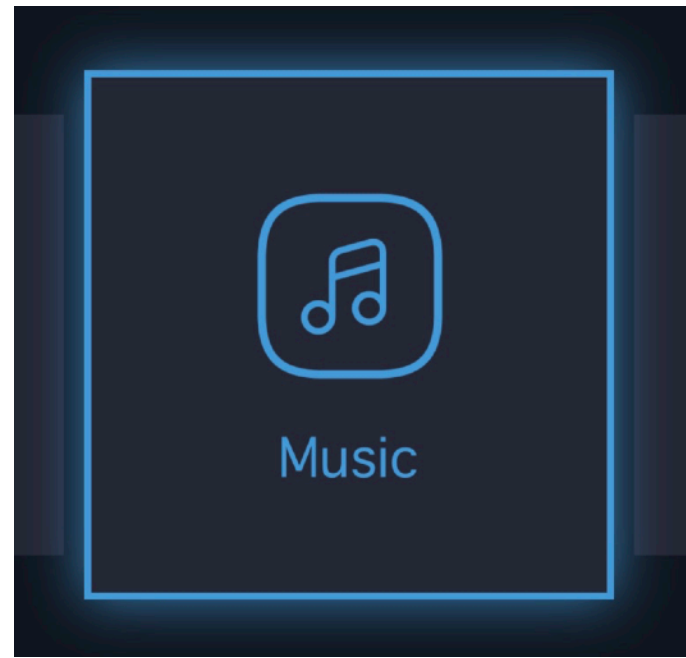

 God's Little... 1958


 Little Shop... 1986


 Night of th... 1968


 Suddenly

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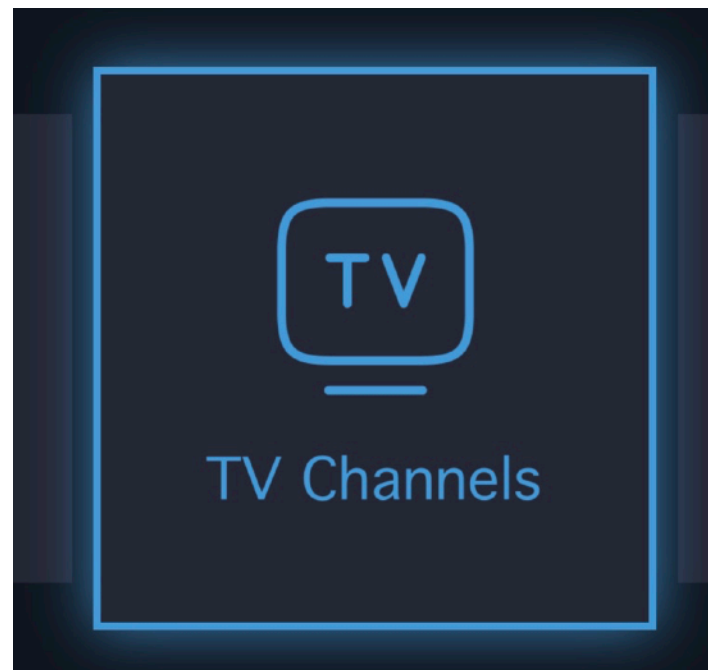

The screenshot shows a multi-layered interface for the HYDRA Music application. At the top, there are navigation tabs for Home, Settings, Artists, and Albums. The main content area displays the artist **Dido** with her profile picture and the text "2 Albums". Below this, the album **Life for Rent** (2003) is featured, with a large red "Dido" logo and "life for rent" text. A tracklist is shown with 9 songs and their durations:

1.	White Flag	04:02
2.	Stoned	05:54
3.	Life for Rent	03:41
4.	Mary's in India	03:40
5.	See You When You're 40	05:20
6.	Don't Leave Home	03:45
7.	Who Makes You Feel	04:21
8.	Sand in My Shoes	04:59
9.	Do You Have a Little Time	03:55

On the right side of the interface, there is a vertical alphabetical index from # to Z. The background of the album view features a large image of Dido.

Browse the Music stored in the Main Server and

PLAY IT!

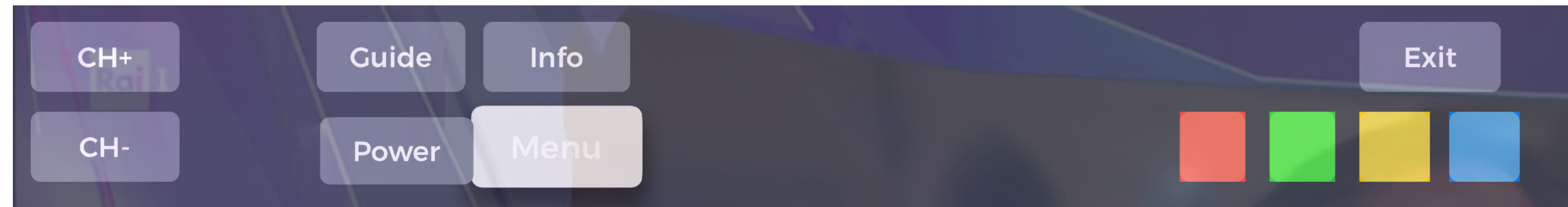


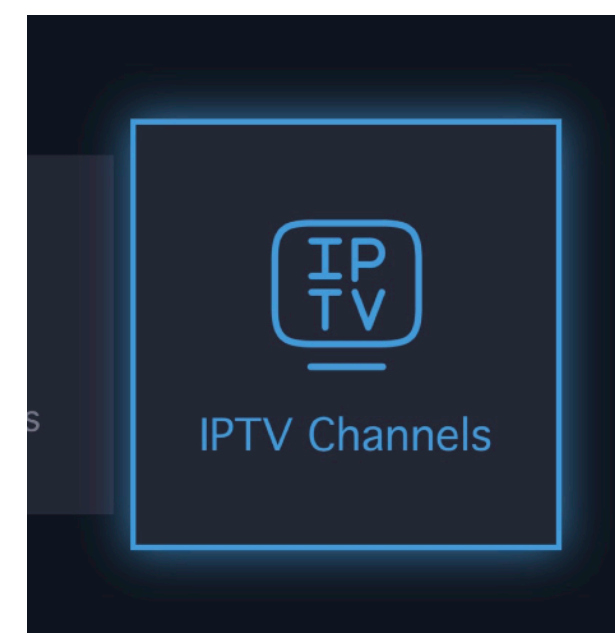
TV Channels shows the Satellite Set Top Box that can be controlled via Apple TV Remote or Crestron appliance.

This function can also share the channel with other AppleTV with not assigned Set Top Box.

2 configurations Available:

- **Master** will control the Set Top Box
- **Slave** view Only

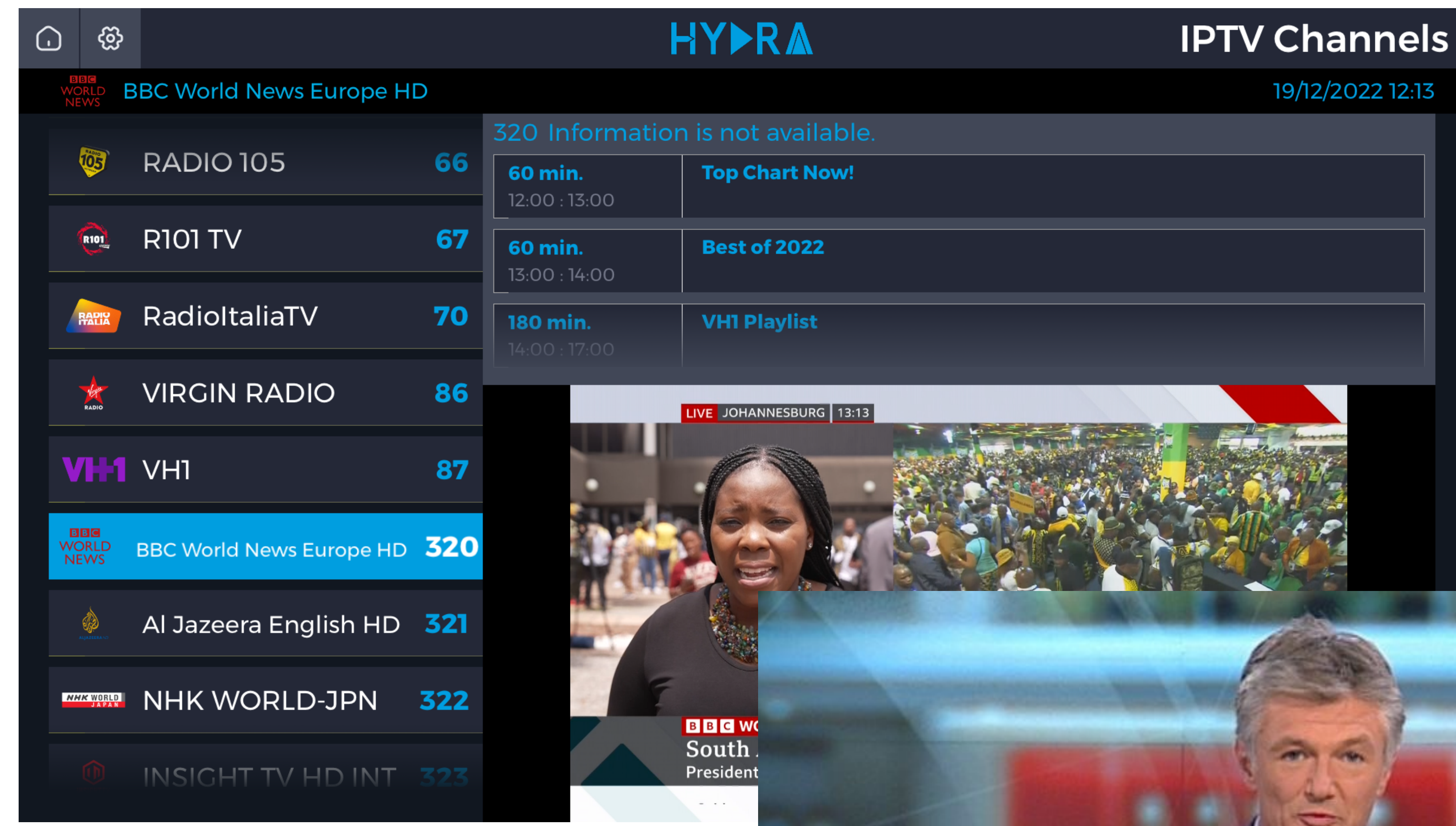




IPTV Provides a selection of a "Free to Air" Channels.

Available just using a Internet Connection
(No any antenna is needed)

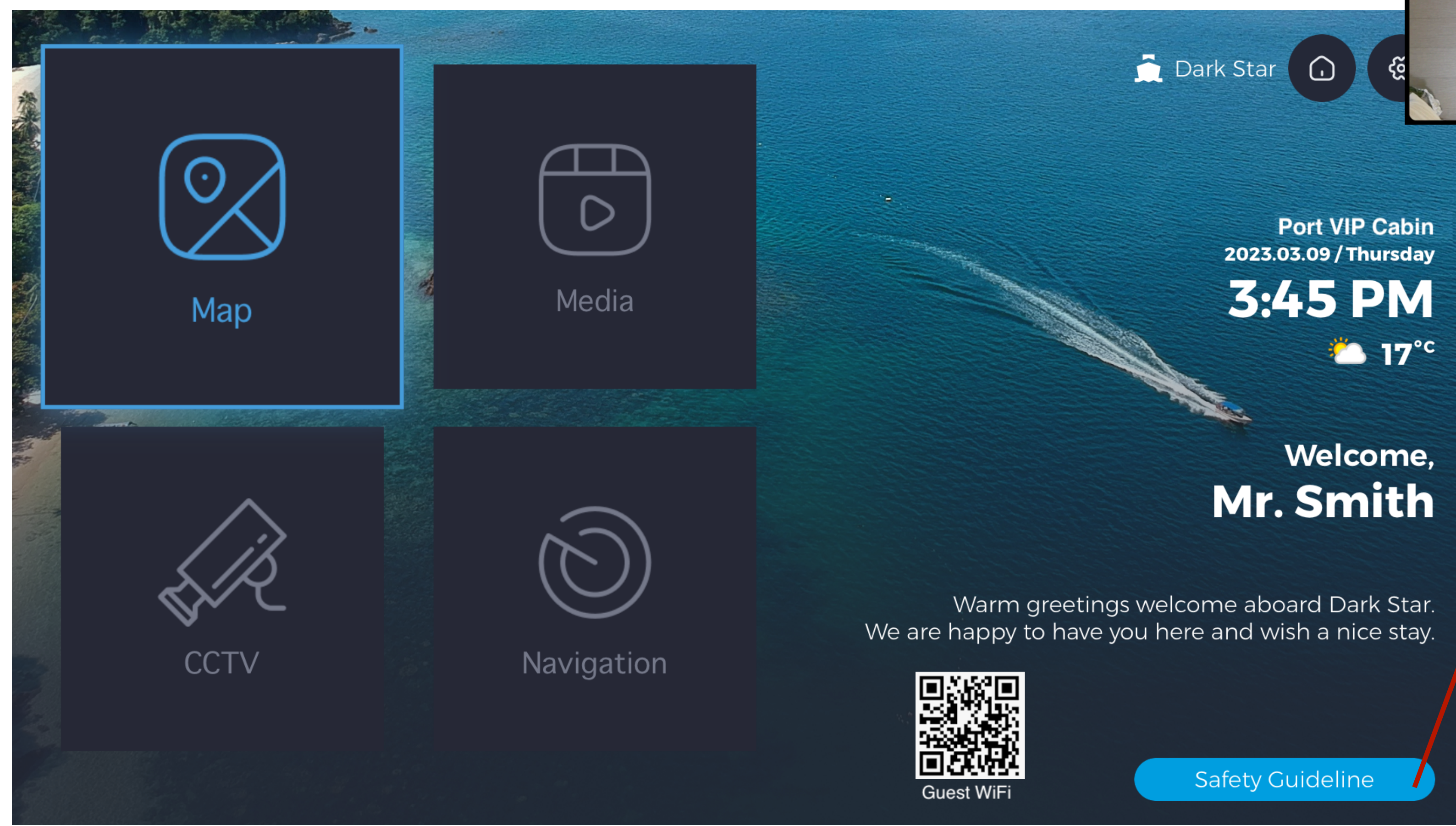
*the service requires a subscription.



The screenshot shows the HYDRA IPTV Channels interface. At the top, there is a navigation bar with a home icon, a settings gear, the HYDRA logo, and the text "IPTV Channels". Below this, the current channel is "BBC World News Europe HD" with a timestamp of "19/12/2022 12:13". A list of channels is displayed on the left, including RADIO 105 (66), R101 TV (67), RadiitaliaTV (70), VIRGIN RADIO (86), VH1 (87), BBC World News Europe HD (320), Al Jazeera English HD (321), NHK WORLD-JPN (322), and INSIGHT TV HD INT (323). On the right, there is a section for "320 Information is not available." with a "60 min." duration and a "Top Chart Now!" button. Below this, there are two more "60 min." segments: "Best of 2022" and "VH1 Playlist". The main content area shows a live broadcast from Johannesburg at 13:13, featuring a woman in the foreground and a large crowd in the background. A news anchor, Tim Willcox, is shown in a separate window at the bottom right, with a "BBC NEWS 10:01 HEADLINES" banner.



Welcome Screen Safety Guideline



Welcome screen (that can be disabled and configured via Smart Server Webpage) provides a Welcome Message for the guest with som info.

A button will show a video about yacht info and safety guidelines (standard safety video or custom produced video).

Also a QR code can be added to access to the Guest WiFi Network



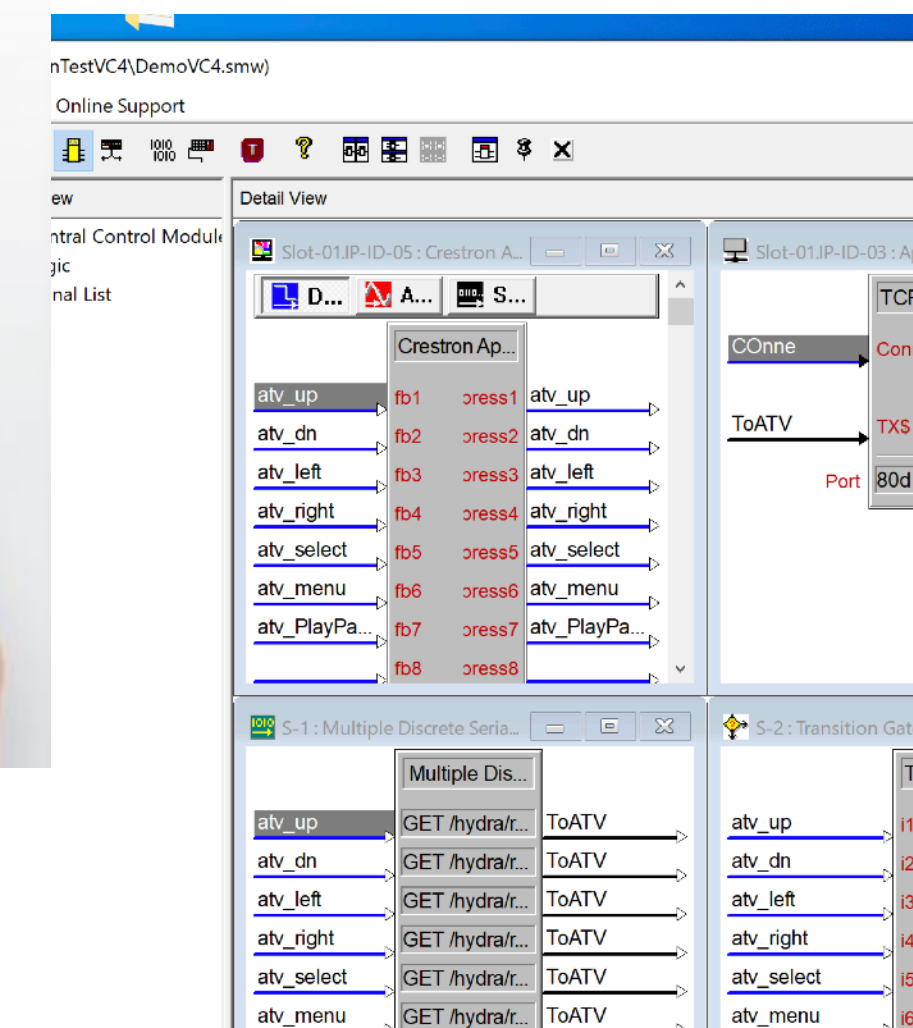
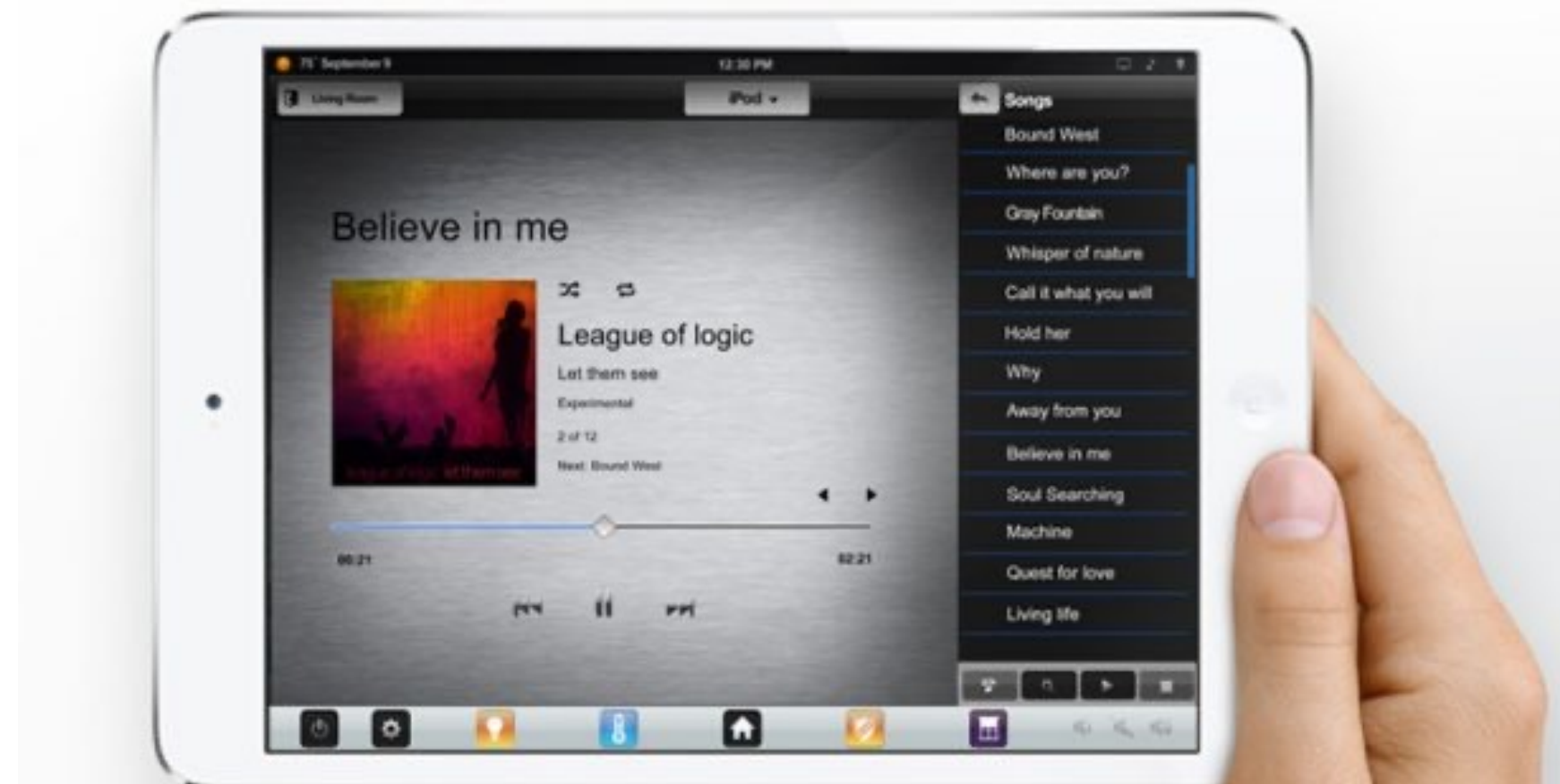
Crestron Module



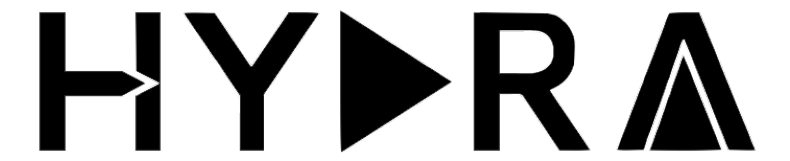
SMART Server and HYDRA come with a Crestron Module that makes interactive HYDRA and Apple TV with Crestron Home Automation.

The module can:

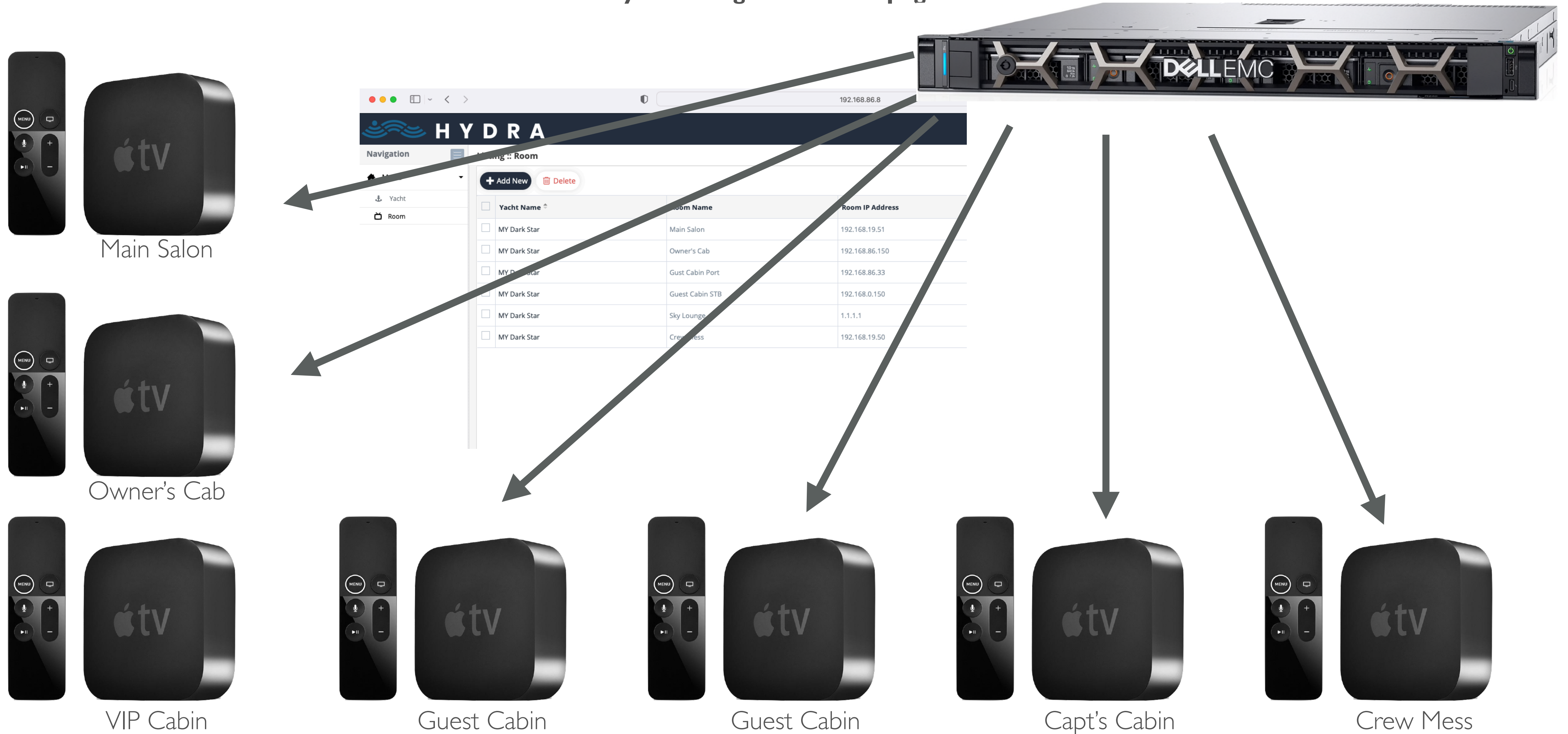
- Control the AppleTV via Network
- Grab the Apple TV Apps Lists and display them on the control screen such as an iPad
- Launch a selected app
- Have a feedback of all the HYDRA functions. Including Movie or Music Titles, info, etc



No additional in cabin hardware is needed.
Just the central server that is the core of the
SMART Architecture.



**All features can be enabled, disabled or managed following
the SMART Server Hydra configuration Webpage**





HYDRA Comes with the SMART Server

- Processor up to Xeon® E-2246G 3.6GHz, 12M cache, 6C/12T, turbo
- RAM up to **64 GB** 2666MT/s DDR4 ECC UDIMM
- HD 3.5" Chassis with 4x 7.2K RPM SATA 6Gbps 512n 3.5in Cabled Hard Drive Up to **48 TByte** RAID5
- Operating system on SD
- 1 Rack Unit or Desk top Boxed



SMART Server can be provided with the following services (available based on configuration):

- Crestron Control Processor Appliance
- UTM/Firewall Appliance with gateway and bandwidth management
- VoIP PABX
- Infotainment Platform (HYDRA)
- CCTV NVR
- NAS Services
- Remote assistance Appliance
- Customer Software based services (Yacht management software, WebServer, Mail Server, etc)

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