AMScreen

Think outside the screen ™

DS75
Technical
Specification

Double/Single Sided

Amscreen® is a leading provider of screen solutions in Europe offering seamless, scalable deployments and support via our full service approach and RDM®.

DS75
Full service screen solution

HARDWARE SUMMARY

HIGH IMPACT
Weatherproof, high bright displays bringing content alive whatever the weather

EASE OF INSTALL AND MAINTENANCE
Bespoke modular designs and jigs offer fast, non-disruptive installs and maintenance

DISTRIBUTION AND SCALABILITY
European production and plug and play design gives speed and flexibility

SECURITY AND FUTURE PROOFED
Secure system via encryption and authentication protocols plus ease of leveraging new tech

SOFTWARE SUMMARY

SMART TRACKING AND SENSORS
Smart brightness® and optional audience tracking using leading tracking platforms, such as Quividi

HOST INTEGRATION AND REMOTE MANAGEMENT
Integration with host systems such as Ayuda, Scala, Broadsign etc and RDM® provision

SERVICE SUMMARY

RDM® REMOTE SMART MANAGEMENT
Alerts and automated data collection via unique system architecture

RDM® REMOTE SMART MAINTENANCE®
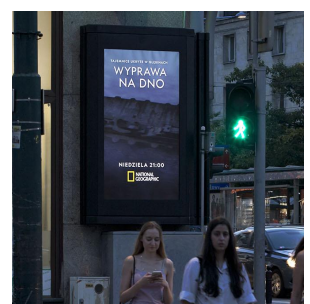Integrated asset management and trouble ticketing to facilitate remote fixes

SUITABLE FOR

Outdoor bus shelter (single or dual sided)

Outdoor free standing (single or dual sided)

Outdoor wall mount

SMART CITY SOLUTIONS

01
CONNECTING AND EMPOWERING COMMUNITIES
Creating one smart ecosystem for communities.

02
SAFE AND SUSTAINABLE ENVIRONMENTS
Using technology to reduce city growing pains.

03
TARGETING AND INSPIRING AUDIENCES
Cutting through the digital noise with powerful data.

For more information about our Smart City Solutions visit amscreen.com/what-we-do/smart-cities

DS75
Technical Specifications

Digital Display Panel

Technology	LCD
Orientation	Portrait operation
Maximum Resolution	1080 x 1920 pixels (full HD)
Viewability	Direct Sunlight Readable
Format	9:16
Display Colours	16.7 Million
Pixel Arrangement	RGB vertical stripe
White Luminance (Typ)	2500 cd/m2
Contrast Ratio (Typ)	5000:1
Active Area	928 x 1650 mm
DPI	0.86 x 0.86 mm
Viewing Angle (Typ)	Wide viewing angle (+/- 89°)
Front Optical Sensor	Yes - for additional proof of content playout
Brightness	Automatic Brightness control to adapt screen brightness to ambient light level Smart Brightness® to adapt backlight brightness during certain hours to not exceed a maximum value
Backlight	LED – automatically turned off when unit accessed Remote re-enablement for increased security

[1] UK Power Distribution Assembly (PDA) – No Internal Breaker
[2] EU Power Distribution Assembly (PDA) – 10A Type C Internal Breaker
[3] France Power Distribution Assembly (PDA) – 10A Type C Internal Breaker

RDM® Smart Maintenance® (Option)

On-site Serviceability	Easy replacement of the LCD panel Easily replacement of control modules e.g. fans, power supplies, PC, router, control units Easy replacement of glass
RDM® Remote Management	Remote data collection associated with PC system, video, brightness, backlight, temperature, humidity, light, fans, router and media player Alarm exceptions/configuration System configuration/control Asset management
RDM® Managed Maintenance Service Option	Centrally managed maintenance service through Amscreen help desk Trouble ticketing system and process for managing, escalating and resolving issues quickly in order to minimise downtime Service Level Agreement (SLA) reporting against key operational criteria
RDM® Predictive Maintenance	Advanced warnings of possible failure conditions Usage profiling over time to detect early failure patterns

Power

Power Supply	220-240VAC, 50Hz single phase mains
Battery	Battery backup for clean shutdown on power loss
Power Consumption	Dual Digital = 2050W (Max) / 1265W (Typ @50% brightness) Single Digital = 1250W (Max) / 790W (Typ @50% brightness)
Plinth	Standard plinths available with provision for power distribution
Internal Protection	Mains voltage surge protection and EMC filter. Digital - Optional Power Distribution Assemblies (PDA) [1, 2, 3]
External Protection Requirements	Digital - 10A Type C [1] 16A Type C [2, 3] Poster – 6A Type B

Enclosure

Types	Available with additional fixing kits/cladding for:- • Bus Shelter installations • Tall free standing units • Short free standing unit
Digital Glass	9.5mm heat strengthened laminated construction Optically clear low reflective coated face glass. IR filters included
Aesthetics	Various standard cladding available + customizable according to requirements
Ventilation	Top and bottom for simple integration
Modular Chassis	For fast on-site replacement of internal modules
Audience Analytics Camera Option	Full HD 1080 x 1920 pixels for maximum viewer detection range located centrally above LCD display
Customisable Branding	Provision for a client logo sticker to be fitted to the metal cladding
Material	Stainless steel/Aluminium

Environmental

IP Rating	IP55 Weatherproof
Operating Temperature	–20 to +40 deg C
Storage Temperature	–20°C to +60°C
Relative Humidity	5% to 95% over the operating temperature range
Smart Coldstart®	Intelligent heater-based control for starting up sensitive electronics in cold conditions
Smart Environmentals®	Intelligent control of environmental conditions within an outdoor display
Smart Exchange®	Intelligent control of airflow to maximise heat exchanger efficiency
Third Party Management	Contact Amscreen for Third Party remote monitoring integration options
Player PC	Independent i5 or AMD based PC capable of integrating customer player/software. (eg Broadsign/Scala)

*1 UK Power Distribution Assembly (PDA) – No Internal Breaker
*2 EU Power Distribution Assembly (PDA) – 10A Type C Internal Breaker
*3 France Power Distribution Assembly (PDA) - 10A Type C Internal Breaker

Networking

Connectivity	4/5G connectivity with roaming across mobile networks
Antenna	Low profile hockey-puck mounted discreetly at top of the unit
Local Ethernet	Local web server to aid installation and troubleshooting

Other options

Energy Meter	Energy monitoring integration
Colours	Customisable options to meet specific needs
Touchscreen	Touchscreen options available – contact Amscreen

Touchscreen Full 75" display area on front door (side A)

Detection method	Projected Capacitive Technology
Input method	Finger and gloved finger
No. of simultaneous touches	40
Interface	HID
OS with Multitouch	Windows 7 embedded on DS75 primary PC – CMS managed
Touch Accuracy	0.53% of sensor diagonal
Touch response	5 mS
Finger separation	2.64% of sensor diagonal

Installation

- Bus shelter integration (subject to static and dynamic loads)
- Transported fully assembled with transport jigs that:
- Secure Wafer displays in transit
- Maximise transport floor area
- Aid on-site/on-ground Wafer installation and manoeuvrability
- Lifting jigs to aid Wafer installation
- Simple installation process minimising on-site installation time

Security and Vandalism

- Robust materials
- Front-facing heat strengthened laminated glass
- Secure locking to prevent internal access
- Secure encrypted transmission between Wafer displays and central management systems

Conformance

- CE (RED, LVD, EMC)
- RoHS and WEEE
- IEE Wiring Regulations 17th Edition
- BS EN 12600 and BS EN 356 (Class P3A)

DS75
Bus Shelter

Single or Dual Sided

✔ High impact versatile sign integrating with existing structures

✔ Single (digital) sided display with rear backlit poster option

✔ Dual (digital) sided display variant

✔ Bus shelter integration

✔ Audience analytic HD camera on digital sides

✔ Free Standing

✔ On-ground and sub-ground mounting
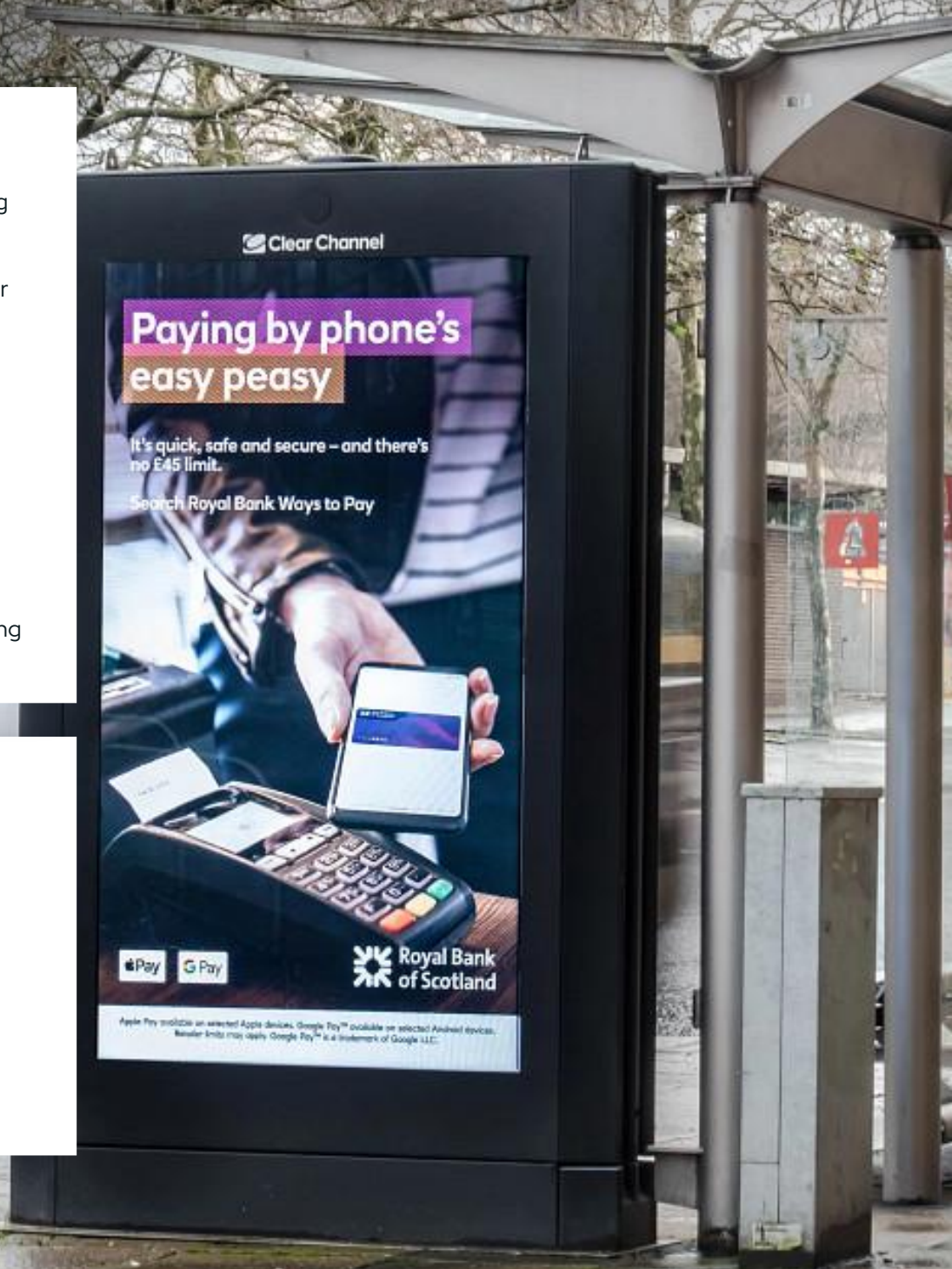
Dimensions*

Height: 2,354mm (full)

Width: 1,340mm

Depth: 305mm

Note: all dimensions +/-7mm

Weight: 390 Kg

Subject to Requirements

Amscreen offer many product variants. For more information please contact us.

DS75
Free Standing Unit

Single or Dual Sided

- ✔ Super sized sign for maximum high street visibility

- ✔ Single (digital) sided display with rear backlit poster variant

- ✔ Dual (digital) sided display variant

- ✔ Free standing

- ✔ Provision for mains consumer panel

Dimensions*

Height: 2862mm (full)

Width: 1,340mm

Depth: 308mm

Note: all dimensions +/7mm

Weight: 430 Kg

Subject to Requirements

Amscreen offer many product variants. For more information please contact us.

DS75
Wall Mount

Single sided

✔ Single (digital) sided display with rear mounting bracket

✔ Mounts to existing walls

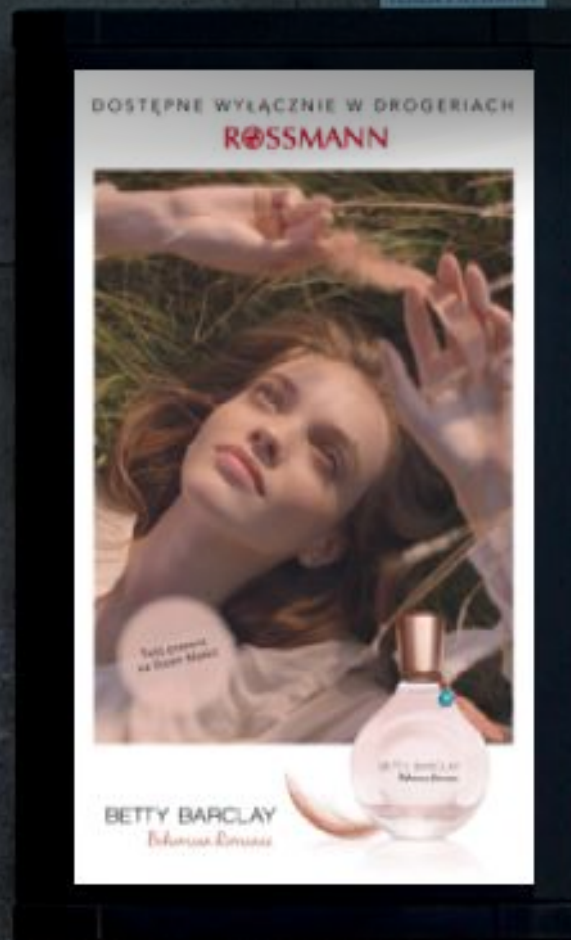✔ Audience analytic HD camera

Dimensions*

Height: 1905mm (full)

Width: 1,340mm

Depth: 310mm (max)

Note: all dimensions +/7mm

Weight: 287 Kg + 24 Kg Rear Bracket

*Subject to Requirements

Amscreen offer many product variants. For more information please <u>contact us</u>.

Do you have a project that would benefit from our technology?

We want to hear from you. Visit amscreen.com/contact to get in touch, or email or call us directly.