



- System Limitations**
- Direct sunlight may disrupt correct Light ID decoding. Operation in direct sunlight is not recommended.
  - Maximum distance is up to five times the width of the lighting device (e.g., for a 55-inch digital signage display, maximum distance would be approximately 6 m (19.6 ft.).

Applications for LinkRay

Panasonic provides a dedicated LinkRay Solution app for iOS/Android™. Users can download to supported smartphones and tablets free. Panasonic also provides an SDK (Software Development Kit) that enables collaboration with third-party app developers.

**Standard Application (Free)**  
LinkRay Solution

Download on the

**SDK**

Panasonic provides a Software Development Kit that interfaces with the LinkRay Solution allowing third-party businesses to create customized applications to suit specific roles.

Supported Operating Systems

<b>iOS Devices</b>	iOS 8.0 and later	<b>Android Devices</b>	Android 5.0 and later
--------------------	-------------------	------------------------	-----------------------

Note: Some devices may not operate correctly even if minimum requirements are met. To get the latest information concerning devices tested for compatibility, please visit the Panasonic LinkRay website: <http://panasonic.net/avc/LinkRay>

Product Lineup

Note that users must sign a Light ID License contract (sold separately) to operate a LinkRay platform. Fees are based on number of Light IDs used.

**LCD Displays**

Panasonic offers the following LinkRay transmission displays. The products support USB Media Player functions or connection to a media player and control multiple IDs externally.

55-inch TH-55SF1H	55"
49-inch TH-49SF1H	49"
42-inch TH-42SF1H	42"
80-inch TH-80SF2H	80"
70-inch TH-70SF2H	70"

Available from Winter 2017

Model No.	TH-42SF1H	TH-49SF1H	TH-55SF1H
Size	42-inch	49-inch	55-inch
Panel / Backlight	IPS / E-LED		
Brightness	700 cd/m <sup>2</sup> *1		
Contrast	1,300:1		
Power Consumption	155 W	175 W	190 W
Dimensions (W x H x D)	947 x 541 x 72 <sup>**2</sup> mm (37.3" x 21.3" x 2.8 <sup>**2</sup> )	1,093 x 623 x 72 <sup>**2</sup> mm (43.1" x 24.6" x 2.8 <sup>**2</sup> )	1,229 x 699 x 72 <sup>**2</sup> mm (48.4" x 27.6" x 2.8 <sup>**2</sup> )
Weight	Approx. 15.5 kg (34.2 lbs)	Approx. 19.2 kg (42.4 lbs)	Approx. 24.9 kg (54.9 lbs)

\*1 Panel brightness is equivalent to approximately 75 % of maximum specified when Light ID is transmitted. Displayed images may flicker due to a change in brightness during Light ID transmission, and is not due to product malfunction.  
\*2 57 mm (2.3") without handle.

**Modulators**

**Variable ID Modulator AL-A001GL**  
LinkRay modulator designed to connect to LED signboards or LED modules for Light ID transmission. Supports control of multiple external IDs.

Note: AC Adapter required (sold separately).

**Fixed ID Modulator**  
LinkRay modulator designed to connect to LED signboards or LED modules for Light ID transmission. Supports control of a single external ID continuously. Constant-voltage power supply is required.

**Constant Voltage Power Supply for Fixed ID Modulator**  
An external power supply designed for use with Fixed ID Modulator.

► Websites

**LinkRay Global Website**

For more information about LinkRay, please visit:  
Global Website – [panasonic.net/avc/LinkRay/](http://panasonic.net/avc/LinkRay/)  
YouTube – [channel.panasonic.com/solutions/business/](https://www.youtube.com/channel.panasonic.com/solutions/business/)

**Professional Display Global Website**

For more information about Panasonic Professional display, please visit:  
Global Website – [panasonic.net/prodisplays/](http://panasonic.net/prodisplays/)  
YouTube – [www.youtube.com/PanasonicProDisplay](https://www.youtube.com/PanasonicProDisplay)

► Video

LinkRay Technology  
[channel.panasonic.com/contents/18927/](http://channel.panasonic.com/contents/18927/)

LinkRay Use Cases  
[channel.panasonic.com/contents/18928/](http://channel.panasonic.com/contents/18928/)

LinkRay Promotion Clip  
[channel.panasonic.com/contents/19353/](http://channel.panasonic.com/contents/19353/)

► App Installation

**Standard Application (Free)**  
LinkRay Solution

Notes on the Introduction of System and Service
<ul style="list-style-type: none"> <li>• Please be aware that fees apply for facility installation and separate systems development</li> <li>• A contract as LinkRay service operator must be created before use. In addition to initial costs, charges per ID used apply</li> <li>• No charges apply for end-users of this service</li> </ul>
Precautions for Usage
<ul style="list-style-type: none"> <li>• Do not let Light ID interfere with barcodes when using a barcode reader. Barcode reader will not operate correctly</li> <li>• Striped patterns might appear on filmed images (footage shot by security cameras, for example)</li> <li>• Direct ambient light or reflected light may reduce LinkRay's receiving performance. Further, the transmitter cannot operate in direct sunlight.</li> </ul>

**Panasonic**

Weights and dimensions shown are approximate. Specifications and appearance are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. Panasonic owns patents relating to Light ID technology in Japan and other countries. "LinkRay" and the "LinkRay" icon are trademarks of Panasonic Corporation. IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license. App Store is a service mark of Apple Inc. Android and Google Play are trademarks of Google Inc. All other trademarks are the property of their respective trademark owners. © 2017 Panasonic Corporation. All rights reserved.

All information included here is valid as of January 2017.

CT17-G01linkray Printed in Japan.

**Panasonic**  
BUSINESS



Welcoming a New Age of Interactive Signage Communication



**LinkRay**

Graphic is simulated.

