

CATV Essential Patent Portfolio

July 1, 2026

Dolby International AB

JP5562408

INFOCITY, Inc.

JP5247097

JP6310109

JP7125692

JP7776095

INFOCITY, Inc. / Nippon Hoso Kyokai

JP6789553

InterDigital CE Patent Holdings, SAS

JP5877065

JP6176871

JVCKENWOOD Corporation

JP4620788

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KDDI CORPORATION

JP5254162

LG Electronics Inc.

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Maxell, Ltd.

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Maxell, Ltd.

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Maxell, Ltd.

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MxH Corporation

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NEC Corporation

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NHK Foundation

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Nippon Hoso Kyokai

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Nippon Hoso Kyokai

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Orange SA

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Panasonic Holdings Corporation

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Sharp Corporation

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Sony Group Corporation

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Toshiba Corporation

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TVS REGZA Corporation

JP5087022

JP5132808

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TVS REGZA Corporation

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Fujitsu Limited

JP3918329	* Expired November 24, 2018
JP4603570	* Expired March 31, 2023
JP4791521	* Expired March 31, 2023
JP4791583	* Expired March 31, 2023

INFOCITY, Inc.

JP3759720	* Expired May 13, 2017
JP4302537	* Expired January 7, 2024

InterDigital CE Patent Holdings, SAS

JP2806587	* Expired October 20, 2009
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JVCKENWOOD Corporation

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JVCKENWOOD Corporation

JP2874729	* Expired January 30, 2015
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JP5214039	* Expired September 29, 2020

JVCKENWOOD Corporation / Panasonic Holdings Corporation

JP2924538	* Expired January 28, 2013
JP3405344	* Expired January 24, 2020
JP3405346	* Expired January 24, 2020

LG Electronics Inc.

JP4278657	* Expired March 19, 2018
JP4806702	* Expired May 13, 2022

Maxell, Ltd.

JP2760799	* Expired April 28, 2008
JP2798086	* Expired April 28, 2008
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Maxell, Ltd.

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Maxell, Ltd.

JP4379528	* Expired March 28, 2022
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Maxell, Ltd.

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Maxell, Ltd. / Nippon Hoso Kyokai

JP3884881	* Expired May 21, 2019
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Mitsubishi Electric Corporation

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Mitsubishi Electric Corporation

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NEC Corporation

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Nippon Hoso Kyokai

JP2883238	* Expired February 6, 2012
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Nippon Hoso Kyokai

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Orange SA

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Orange SA / TDF SAS

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Panasonic Holdings Corporation

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Panasonic Holdings Corporation

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Panasonic Holdings Corporation / Nippon Hoso Kyokai

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Panasonic Holdings Corporation / Nippon Hoso Kyokai

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Pioneer Corporation

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JP2852295	* Expired May 26, 2017
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Sanyo Electric Co., Ltd.

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Sharp Corporation

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Sharp Corporation

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Sony Group Corporation

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Sony Group Corporation

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Sony Group Corporation / Nippon Hoso Kyokai

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Sony Group Corporation / Toshiba Corporation / Nippon Hoso Kyokai

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JP4194240	* Expired January 29, 2019
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Toshiba Corporation

JP2941398	* Expired September 29, 2010
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