

# Wavefront Phase Modifier [Surface, Output-Defined]

## Digital Twin Specification

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| <b>Twin Code:</b>    | CF-WPMS02  |
| <b>Twin Name:</b>    | Wavefront Phase Modifier [Surface, Output-Defined] |
| <b>Category:</b>     | Component  |
| <b>Type:</b>         | Function-Based                                     |
| <b>Version:</b>      | 1.0  |
| <b>Package:</b>      | Platform   |
| <b>Last Updated:</b> | 2026-07-02   |

## Description

Modifies the wavefront phase on a surface based on a desired outgoing wavefront phase. Instead of prescribing the phase modification directly, this twin derives the required phase change from the requested output behavior while following the geometry of the supporting surface. It supports workflows such as shaping or collimating a field from a curved surface.

**⚠ Note:** This specification sheet is under active development. Detailed technical descriptions, model parameters, and usage examples will be added over the coming months.

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| <b>Author:</b>        | LightTrans International GmbH  |
| <b>Contact:</b>       | support@lighttrans.com   |
| <b>Keywords:</b>      | wavefront phase modifier, surface, output-defined, outgoing wavefront, wavefront shaping |
| <b>Related Twins:</b> | WPMP02, WPMS01, WPMP01   |