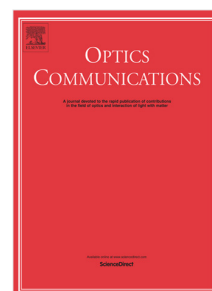


## Accepted Manuscript

A full-color near-eye augmented reality display using a tilted waveguide and diffraction gratings

Zeyang Liu, Cheng Pan, Yajun Pang, Zhanhua Huang



PII: S0030-4018(18)30792-2  
DOI: <https://doi.org/10.1016/j.optcom.2018.09.011>  
Reference: OPTICS 23450

To appear in: *Optics Communications*

Received date: 23 July 2018  
Revised date: 3 September 2018  
Accepted date: 6 September 2018

Please cite this article as: Z. Liu, et al., A full-color near-eye augmented reality display using a tilted waveguide and diffraction gratings, *Optics Communications* (2018), <https://doi.org/10.1016/j.optcom.2018.09.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**HIGHLIGHTS:**

- 1) A novel tilted-waveguide display with an incline angle of  $30^\circ$  is proposed.
- 2) A large full-color FOV of  $35^\circ$  is achieved.
- 3) Two surface-relief diffraction gratings are designed as couplers.
- 4) A freeform surface prism is designed as the projection optics.

Download English Version:

<https://daneshyari.com/en/article/10155645>

Download Persian Version:

<https://daneshyari.com/article/10155645>

[Daneshyari.com](https://daneshyari.com)