



Title

[The title of the manuscript should be concise, specific, and relevant. It should clearly state the main result or conclusion of the manuscript, omitting implicit terms and avoiding abbreviations.]

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Abstract

[Suggestions: No more than 250 words. No citations. Define abbreviations at their first mention.]

The Abstract is unstructured and should provide a concise summary of the study, capturing the essence of your research in a single, fluid paragraph.

Keywords: Keyword 1, keyword 2, keyword 3

[Typically, 3-8 keywords should be provided which can be used for describing the content of the manuscript and will enable the full text of the manuscript to be searchable online.]

1. Introduction

The Introduction section serves to set the stage for your research by providing background information, outlining the research problem, and stating the study's objectives.

2. Methods

The methods section should provide a detailed description of the research design and methodologies used to conduct the study.

2.1 Level 2 heading

2.1.1 Level 3 heading

Tips:

- *Research design:* Specify whether the study is qualitative, quantitative, or mixed-methods and justify the choice.
- *Data collection:* Describe how data were collected (e.g., experiments, simulations, site visits, design evaluations, user studies, computational modeling).
- *Materials and tools:* List key tools, software, or materials used (e.g., CAD software, models, analytical frameworks).
- *Procedure:* Outline the research process step by step to ensure reproducibility.
- *Data analysis:* Explain how data were analyzed (e.g., statistical, thematic, or visual analysis methods).

3. Results

The Results section should present the findings of the study in a clear and logical order, without any interpretation or speculation.

Tips:

- *Report results in a logical order following research questions or hypotheses.*
- *Quantitative studies:* provide key statistics (means, percentages, confidence intervals, p-values).
- *Qualitative studies:* summarize main themes with supporting examples or quotes.
- *Avoid interpretation; reserve analysis for the Discussion.*



- Highlight the most significant findings that support the study's conclusions.

Table 1 (other forms: Table 1 and Table 2), **Figure 1** (other forms: Figure 1A,B; Figure 2a,b,c; Figure 1 and Figure 2A) and **Equation (1)** [other forms: Equation (2) and Equation (3)] show the examples of diagrams. All the tables, figures and equations should be cited in sequence in the main content near to the first time they appear. For supplementary material, authors may cite table, equation and figure like **Table S1**, **Figure S1** and **Equation S(1)**.

Table 1. Power consumption analysis of our prototype for demonstration^[1].

Device	Power (Device)	Power consumption (Single [100, 100] POMMM)
Laser	145 W (Supplied power), 0.022 W (Output power)	0.306 μ J
ASLM1	18 W (Supplied power)	250 μ J
PSLM	18 W (Supplied power)	250 μ J
ASLM2	18 W (Supplied power)	250 μ J
qCMOS	150 W (Supplied power)	12.72 μ J
Total	349 W (Supplied power)	763.026 μ J

This part is footer. ASLM: amplitude spatial light modulator; PSLM: phase spatial light modulator; qCMOS: quantitative complementary metal oxide semiconductor camera.

Table notes:

- Tables should be cited in numeric order and placed after the paragraph where it is first cited;
- The table caption should be placed above the table and labeled sequentially (e.g., Table 1, Table 2);
- Tables should be provided in editable form like DOC or DOCX format (picture is not allowed);
- Abbreviations and symbols used in table should be explained in footnote;
- Explanatory matter should also be placed in footnotes;
- Non-English words should be avoided;
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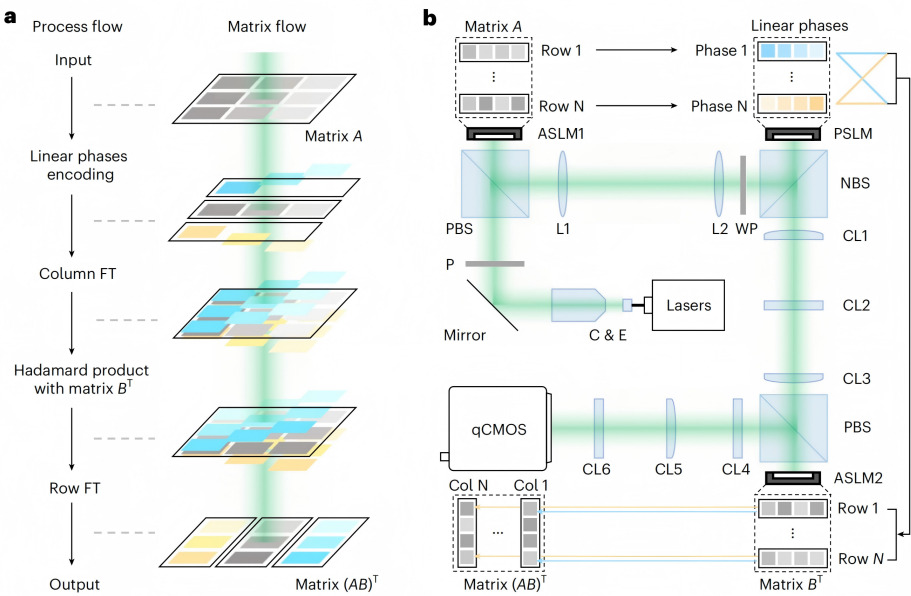


Figure 1. Principle and experimental set-up of POMMM. (a) The operation principle of POMMM. Left: the process flow of POMMM. Right: the corresponding matrix process after each step. The different colours represent different linear phase encodings. (b) Experimental set-up and corresponding matrix operations^[1]. C & E: collimation and expansion; P: polarizer; PBS: polarization beam splitter; L: lens; WP: wave plate; NBS: non-polarization beam splitter; qCMOS: quantitative complementary metal oxide semiconductor camera; FT: Fourier transform.

Figure notes:

- Figures should be cited in numeric order (e.g., Figure 1, Figure 2) and placed after the paragraph where it is first cited;

- Figures can be submitted in format of tiff, psd, AI or jpeg, with resolution of 300-600 dpi;
- The figure caption should be positioned below the figure;
- Diagrams containing descriptive text (such as flow charts, coordinate diagrams, bar charts, line charts, and scatter plots) should be editable in Word, Excel, or PowerPoint formats. Non-English information should be avoided;
- Labels, numbers, letters, arrows, and symbols within figures should be clear, uniform in size, and contrast with the background;
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- Authors should pay attention to the protection of patients' rights, such as privacy and portrait, and obtain signed patient consent from authors before using any personal information of patients. The patient's portrait with full characters and his/her real name is not allowed for use;
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$$J = \frac{9}{8} \varepsilon_0 \varepsilon_r \mu \frac{E^2}{L}$$

Equation note:

- *Equations should be provided in editable form (image file format is not allowed).*

4. Discussion

The Discussion section is where you interpret the results and explore their implications in the context of the research questions and the broader field.

5. Conclusion

The conclusion should succinctly summarize the main findings of the study and their significance.

Declarations

Acknowledgments

Anyone who contributed towards the article but does not meet **the criteria** for authorship, including those who provided professional writing services or materials, should be acknowledged. Authors should obtain permission to acknowledge from all those mentioned in the Acknowledgments section. This section is not added if the author does not have anyone to acknowledge.

Authors contribution

Each author should have contributed significantly to the conception, design, acquisition, analysis, or interpretation of data, or the creation of new software used in the work, or substantively revised the manuscript. Contributions should be indicated using Surname and Initials of Forename.

For example:

Single author:

The author contributed solely to the article.

Two or more authors:

Pal U, Li M: Data analysis and interpretation.

Tian P, Bella F: Article conception and design.

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This section should mention that consent to participate was obtained from all participants or their legal representatives, ensuring that participants were fully informed about the study's purpose, procedures, risks, and benefits before consenting to participate.

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References

1. Zhang Y, Liu X, Yang C, Xiang J, Yan H, Fu T, et al. Direct tensor processing with coherent light. *Nat Photon.* 2025;14:1-7. [DOI:10.1038/s41566-025-01799-7]

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