CMB International Global Markets | Equity Research | Sector Update

Technology

Meta Connect 2024: Quest 3S, Orion AR glasses, Al and Ray-Ban smart glasses updates

Meta officially unveiled the latest MR Quest 3S, prototype of its first Orion AR glasses, and updates on Meta AI and Ray-Ban smart glasses during the Meta Connect event. The new Quest 3S came at US\$ 299 as a more affordable version of Quest 3 (US\$ 499) launched last year, equipped with reduced specs on display, resolution and optical solution, but featuring the same processor, MR functions, hand tracking and full gaming/social/entertainment experience with Horizon OS. Meta also debuted Orion, its most advanced AR glass prototype, featuring wide FoV, holographic displays, see-through MR function, eye/hand tracking, new display architecture and wrist-based neural interface in a light design (100g). Meanwhile, Orion will only serve as a developer kit for internal use and industry partners, and Meta targets the next version of Orion to be consumer-grade full holographic AR glasses. For stocks, we believe AR/VR supply chain will benefit from the new product launches and spec upgrades, such as Sunny Optical for pancake lenses, Goertek for OEM/acoustics, AAC Tech for pancake lenses/acoustics/haptics and TK Group for structural components.

- Quest 3S spec mostly in-line; Lower starting price (\$299) set to boost sales. Meta unveiled a basic version of Quest 3 launched last year, featuring reduced specs and lower selling price. Key features of Meta Quest 3S came mostly in-line with expectations, and the lowered starting price (US\$ 299 vs. Quest 3 at US\$ 499) should help the proliferation of XR devices and further market penetration. Quest 3S is open for on-line pre-order today and start shipment on 15 Oct.
- Meta Al updates, transparent frame limited edition Ray-Ban smart glasses and prototype version Orion AR glasses. Meta introduced updated new open-source model Llama 3.2, which is a multi-model with upgraded parameters and can support implications such as natural language communication, live translation and automatic video dubbing. The new Meta Al functions and related software updates are available on the Meta Ray-Ban smart glasses, which had one limited edition of clear transparent frame design launched during the event. Also, Meta unveiled the prototype of its first holographic AR glasses, Orion, featuring lightweighted design, wide field of view, holographic displays, see-through mixed reality function, eye tracking/hand tracking, new display architecture, and is equipped with wrist-based neural interface.
- Quest 3S release likely to boost XR market recovery, booming demand for Meta AR glasses; Positive to Goertek, Sunny Optical, AAC Tech and TK Group. We believe the new product launch will aid AR/VR shipment recovery in the next few quarters, benefiting Sunny Optical for pancake lenses, Goertek for OEM/acoustics, AAC Tech for pancake lenses/acoustics/haptics and TK Group for structural plastic components.

Valuation Table

| Name | Ticker | Rating | Mkt Cap | Price | TP | TP Up/Down | | P/E (x) | | P/B (x) | |
|---------------|-----------|--------|-----------|-------|------|------------|-------|---------|-------|---------|--|
| Name | TICKEI | Кашіў | (US\$ mn) | (LC) | (LC) | -side | FY24E | FY25E | FY24E | FY25E | |
| Luxshare | 002475 Cl | H Bu | y 39,428 | 38.42 | 45.1 | 17% | 20.4 | 16.7 | 3.3 | 2.7 | |
| Goertek | 002241 CI | H Bu | y 9,586 | 19.69 | 25.9 | 32% | 23.2 | 18.9 | 1.9 | 1.8 | |
| Sunny Optical | 2382 HK | Bu | y 7,082 | 50.35 | 72.5 | 44% | 20.1 | 16.9 | 2.0 | 1.9 | |
| AAC Tech | 2018 HK | Bu | y 4,681 | 30.40 | 37.8 | 24% | 19.3 | 15.5 | 1.4 | 1.3 | |
| TK Group | 2283 HK | Bu | y 182 | 1.70 | 2.8 | 66% | 5.0 | 4.0 | 0.8 | 0.7 | |
| Cowell | 1415 HK | NF | R 2,465 | 22.35 | NA | . NA | 25.2 | 15.5 | 4.9 | 3.7 | |
| Everwin | 300115 CH | H NF | R 2,138 | 11.10 | NA | . NA | 19.3 | 16.9 | 2.0 | 1.8 | |

Source: Company data, Bloomberg, CMBIGM estimates



OUTPERFORM (Maintain)

China Technology Sector

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Related reports:

- Goertek (002241 CH) –Solid GPM recovery in 1H24; Poised to benefit from "AI+XR" trend in 2H24E-16 Aug 2024 (link)
- Sunny Optical (2382 HK) Gearing up for new growth cycle; Raise TP to HK\$ 72.52 -22 Aug 2024 (<u>link</u>)
- AAC Tech (2018 HK)-Riding on new upgrade cycle; Upgrade to BUY - 23 Aug 2024 (<u>link</u>)
- TK Group (2283 HK)-1H24 beat on strong margins; Positive outlook for wearables/AR&VR in 2H24/FY25E-28 Aug 2024 (link)
- Takeaways of Meta Connect 2023: Quest 3, Ray-Ban smart glasses and Meta Al Chatbot -29 Sep 2023 (<u>link</u>)
- Apple MR: Long-awaited next "iPhone moment"- 5 Jun 2023 (link).



Figure 1: Meta Quest 3S vs. Meta Quest 3 vs. Apple Vision Pro vs. Meta Quest Pro vs. Meta Quest 2

| | Meta Quest 3S | Meta Quest 3 | Apple Vision Pro | Meta Quest Pro | Meta Quest 2 | Pico Neo 4/4 Pro | Sony PSVR2 | HTC Vive XR Elite |
|--------------------|-----------------------|-----------------------|------------------|----------------|--------------|------------------|------------|-------------------|
| Туре | Standalone | Standalone | Standalone | Standalone | Standalone | Standalone | Tethered | Standalone |
| Release Date | Sep-24 | Sep-23 | Jun-23 | Oct-22 | Oct-20 | Sep-22 | Feb-22 | Mar-23 |
| Processor | Qualcomm XR2 Gen 2 | Qualcomm XR2 Gen 2 | Apple M2 | Qualcomm XR2+ | Qualcomm XR2 | Qualcomm XR2 | MediaTek | Qualcomm XR2 |
| Storage | 128/256GB | 128 GB/512GB | - | 256GB | 128/256GB | 128/256GB/512GB | - | 128GB |
| Display | Fast-LCD | Mini-LED | Micro OLED | Mini-LED | Fast-LCD | Fast-LCD | OLED | Fast-LCD |
| Resolution per eye | 1832*1920 | 2064*2208 | 4K | 1800*1920 | 1832*1920 | 2160*2160 | 2000*2040 | 1920*1920 |
| Refresh Rate (Hz) | 90, 120 | 90, 120 | 120 | 72, 90 | 60, 72, 90 | 72, 90 | 90, 120 | 90 |
| Optical | Fresnel | Pancake | Pancake | Pancake | Fresnel | Pancake | Fresnel | Pancake |
| FOV (Deg) | 96*90 | 110 | 120 | 120 | 100 | 105 | 110 | 110 |
| Tracking | 6DoF | 6DoF | 6DoF | 6DoF | 6DoF | 6DoF | 6DoF | 6DoF |
| Weight | 514g | 515g | 400g | 722g | 503g | 586g | 560g | 625g |
| Price | \$299.99 | \$499 | \$3,499 | \$1,499 | \$299, \$399 | RMB 2499 | \$399 | \$1,099 |

Source: Meta, Apple, CMBIGM.

Figure 2: Meta Quest 3S



Source: Meta, CMBIGM.

Figure 4: Llama 3.2 multi-model in 11B/90B parameters



Source: Meta, CMBIGM.

Figure 6: Meta Orion, the prototype of its first full holographic AR glasses



Source: Meta, CMBIGM.

Figure 3: Limited edition Ray-Ban Meta glasses



Source: Meta, CMBIGM.

Figure 5: Ray-Ban Meta glasses with new Meta AI



Source: Meta, CMBIGM.

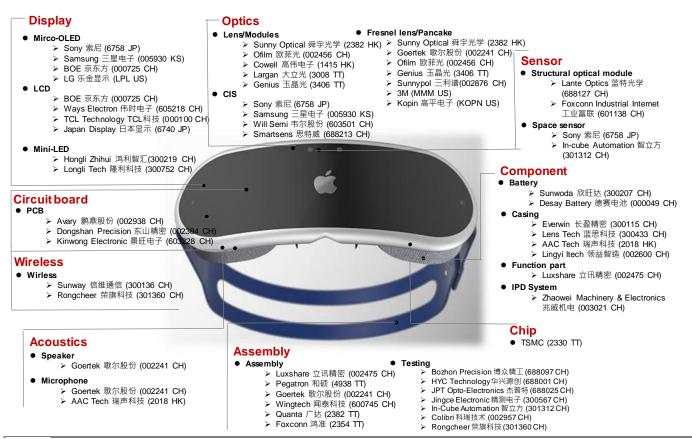
Figure 7: Meta Orion-projectors in glasses arms that shoot the lights into wave guides



Source: Meta, CMBIGM.



Figure 8: Overview of VR/AR headset supply chain



Source: CMBIGM



Figure 9: Peers Comparison

| Ticker | Rating | | | | | | | | | | |
|-----------|---|--|---|---|--|---|---|--|--|--|--|
| | Kauny | (US\$ mn) | (LC) | (LC) | -side | FY24E | FY25E | FY24E | FY25E | FY24E | FY25E |
| | | | | | | | | | | | |
| 2382 HK | Buy | 7,082 | 50.35 | 72.5 | 44% | 20.1 | 16.9 | 2.0 | 1.9 | 10.1 | 11.2 |
| 1478 HK | Buy | 756 | 4.97 | 6.4 | 29% | 14.9 | 9.9 | 1.0 | 0.9 | 6.9 | 9.6 |
| 1415 HK | NR | 2,465 | 22.35 | NA | NA | 25.2 | 15.5 | 4.9 | 3.7 | 20.1 | 25.9 |
| 3008 TT | NR | 10,927 | 2,610.00 | NA | NA | 14.7 | 14.1 | 2.0 | 1.8 | 13.6 | 13.3 |
| 3406 TT | NR | 1,758 | 497.00 | NA | NA | 12.2 | 11.9 | 2.3 | 2.1 | 19.6 | 17.7 |
| 4915 TT | NR | 1,287 | 88.60 | NA | NA | 14.4 | 12.7 | 2.2 | 2.1 | 15.0 | 16.2 |
| 2301 TT | NR | 7,363 | 100.00 | NA | NA | 17.5 | 14.7 | 2.7 | 2.5 | 15.2 | 17.3 |
| 002456 CH | NR | 4,060 | 8.61 | NA | NA | 49.8 | 31.5 | 6.8 | 6.5 | 7.8 | 12.2 |
| 009150 KS | NR | 7,875 | 140,100.00 | NA | NA | 15.4 | 11.9 | 1.3 | 1.2 | 8.7 | 10.1 |
| 011070 KS | NR | 4,088 | 229,500.00 | NA | NA | 6.9 | 6.2 | 1.0 | 0.9 | 15.4 | 14.9 |
| 091700 KS | NR | 330 | 7,450.00 | NA | NA | 10.0 | 8.9 | 0.9 | 0.8 | 9.0 | 9.5 |
| | | Average | | | | 18.3 | 14.0 | 2.5 | 2.2 | 12.9 | 14.4 |
| ; | | | | | | | | | | | |
| 2018 HK | Buy | 4,681 | 30.40 | 37.8 | 24% | 19.3 | 15.5 | 1.4 | 1.3 | 7.0 | 8.2 |
| 002241 CH | Buy | 9,586 | 19.69 | 25.9 | 32% | 23.2 | 18.9 | 1.9 | 1.8 | 8.4 | 9.5 |
| | Buy | 39,428 | 38.42 | 45.1 | 17% | 20.4 | 16.7 | 3.3 | 2.7 | 16.0 | 16.4 |
| | NR | 2,583 | 18.74 | NA | NA | 24.6 | 18.8 | 2.4 | 2.1 | 9.8 | 11.7 |
| | NR | 987 | 131.50 | NA | NA | 15.4 | 14.3 | 2.2 | 2.3 | 13.8 | 15.0 |
| | NR | 25,799 | 6,265.00 | NA | NA | 25.0 | 18.9 | 2.4 | 2.0 | 10.1 | 11.3 |
| | NR | | 1,568.00 | NA | NA | - | | | 0.8 | (8.6) | 8.3 |
| | | Average | | | | 21.0 | 15.9 | 1.8 | 1.7 | 6.7 | 10.7 |
| | | | | | | | | | | | |
| 6088 HK | Buy | 2,173 | 2.32 | 4.3 | 83% | 11.6 | 7.1 | 0.8 | 0.7 | 7.0 | 10.3 |
| | Buy | 39,428 | 38.42 | 45.1 | 17% | 20.4 | 16.7 | 3.3 | 2.7 | 16.0 | 16.4 |
| | NR | 44,305 | 145.78 | NA | NA | 19.3 | 17.7 | 3.5 | 3.4 | 19.0 | 19.1 |
| | NR | 78,712 | 65.36 | NA | NA | 36.9 | 31.7 | 8.2 | 7.2 | 24.3 | 24.7 |
| | | Average | | | | 22.1 | 18.3 | 3.9 | 3.5 | 16.6 | 17.6 |
| | | | | | | | | | | | |
| 285 HK | Buy | 8,917 | 30.80 | 40.9 | 33% | 14.3 | 10.0 | 3.4 | 2.7 | 23.8 | 27.5 |
| 002475 CH | Buy | 39,428 | 38.42 | 45.1 | 17% | 20.4 | 16.7 | 3.3 | 2.7 | 16.0 | 16.4 |
| 2317 TT | NR | 82,406 | 189.50 | NA | NA | 16.6 | 12.6 | 1.6 | 1.5 | 9.7 | 11.7 |
| 4938 TT | NR | 8,607 | 103.00 | NA | NA | 14.3 | 13.6 | 1.4 | 1.4 | 9.1 | 9.4 |
| | NR | 9,406 | 103.50 | NA | NA | 15.6 | 12.2 | 2.4 | 2.1 | 16.6 | 18.3 |
| | | Average | | | | 28.98 | 20.90 | 6.61 | 5.02 | 13.58 | 19.86 |
| | | | | | | | | | | | |
| 285 HK | Buy | 8,917 | 30.80 | 40.9 | 33% | 14.3 | 10.0 | 3.4 | 2.7 | 23.8 | 27.5 |
| 698 HK | Buy | 94 | 0.08 | 0.1 | 63% | 25.0 | 3.8 | 0.1 | 0.1 | 0.4 | 2.7 |
| | Buy | 182 | 1.70 | 2.8 | 66% | 5.0 | 4.0 | 0.8 | 0.7 | 15.2 | 17.4 |
| | NR | 2,138 | 11.10 | NA | NA | 19.3 | 16.9 | 2.0 | 1.8 | 11.3 | 11.7 |
| | NR | 11,835 | 16.67 | NA | NA | | 16.7 | 1.7 | 1.6 | 8.0 | 9.7 |
| | | - | | NA | NA | | 22.4 | | | | 12.5 |
| | NR | | | | NA | | | | 1.0 | | 6.4 |
| | | | | | | | | | | | 49.8 |
| 00200 | | - | | | | | | | | | 17.2 |
| | 1478 HK 1415 HK 3008 TT 3406 TT 4915 TT 2301 TT 002456 CH 009150 KS 011070 KS 091700 KS 2018 HK 002241 CH 002475 CH 2439 TT 6594 JP 6770 JP 6088 HK 002475 CH TEL US APH US 285 HK 002475 CH 2317 TT 4938 TT 3231 TT 4938 HK | 1478 HK Buy 1415 HK NR 3008 TT NR 3406 TT NR 4915 TT NR 2301 TT NR 002456 CH NR 009150 KS NR 011070 KS NR 091700 KS NR 002475 CH Buy 300136 CH NR 6594 JP NR 6770 JP NR 6088 HK Buy 002475 CH Buy 2317 TT NR 4938 TT NR 3231 TT NR 4938 HK Buy 300115 CH NR 300433 CH NR 300408 CH NR 300408 CH NR | 1478 HK Buy 756 1415 HK NR 2,465 3008 TT NR 10,927 3406 TT NR 1,758 4915 TT NR 1,287 2301 TT NR 7,363 002456 CH NR 4,060 009150 KS NR 7,875 011070 KS NR 4,088 091700 KS NR 4,088 091700 KS NR 4,088 002475 CH Buy 9,586 002475 CH Buy 39,428 300136 CH NR 2,579 6594 JP NR 2,375 Average 2,375 6594 JP NR 2,375 6594 JP NR 2,375 02475 CH Buy 39,428 TEL US NR 44,305 APH US NR 7,8712 285 HK Buy 39,428 2317 TT NR 8,607 3231 TT NR 4,601 02475 CH Buy 39,428 | 1478 HK Buy 756 4.97 1415 HK 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2301 TT NR 7,363 100.00 NA NA 14.4 11.7 002456 CH NR 7,063 300.00 NA NA 16.9 6.2 091700 KS NR 7,875 140,100.00 NA NA 10.0 8.9 002475 CH Buy 39,686 19.69 25.9 32% 23.2 18.9 002475 CH Buy 39,428 38.42 45.1 17% 20.4 16.7 300136 CH NR 25,799 <td>1478 HK Buy 756 4.97 6.4 29% 14.9 9.9 1.0 1415 HK NR 2.465 22.35 NA NA 25.2 15.5 4.9 3008 TT NR 10,927 2.610.00 NA NA 14.7 14.1 2.0 306 TT NR 1,758 4970.0 NA NA 14.2 11.9 2.3 4915 TT NR 1,287 88.60 NA NA 14.4 12.7 2.2 2301 TT NR 4,060 8.61 NA NA 14.8 31.5 6.8 002456 CH NR 4,068 229,500.00 NA NA 19.8 31.5 6.8 001100 KS NR 4,081 30.40 37.8 24% 19.3 15.5 1.4 002475 CH Buy 9,586 19.69 25.9 32% 23.2 18.9 1.9 002475 CH Buy 39,428 38.42 45.1 17% 20.4 16.7 3.3 002475 CH</td> <td>1478 HK Buy 756 4.97 6.4 29% 14.9 9.9 1.0 0.93 1415 HK NR 2.465 22.35 NA NA 2.52 15.5 4.93 3.7 306 TT NR 1.0.927 2.610.00 NA NA 14.1 2.0 1.8 306 TT NR 1.287 88.60 NA NA 14.4 12.2 1.1.9 2.3 2.1 301 TT NR 7.363 100.00 NA NA 14.4 12.7 2.2 2.1 201170 KS NR 7.363 100.00 NA NA 15.4 11.9 1.3 1.2 011070 KS NR 4.080 8.295.00.00 NA NA 16.0 8.9 0.9 0.8 011070 KS NR 4.081 30.40 37.8 24% 19.3 1.5 1.4 1.3 1.2 011670 KS NR 2.583 18.74 NA NA 4.0 2.5 2.2 218 HK Buy 9.586</td> <td>1478 HK Buy 756 4.97 6.4 29% 14.9 9.9 1.0 0.9 6.9 1415 HK NR 2.465 22.35 NA NA 25.2 15.5 4.9 3.7 20.1 3006 TT NR 10.927 2.610.00 NA NA 14.7 14.1 2.0 1.8 13.6 3406 TT NR 1.097 2.610.00 NA NA 14.7 14.7 2.7 2.5 15.2 201 TT NR 1.297 88.60 NA NA 14.4 12.7 2.2 2.1 15.0 201TT NR 4.060 8.61 NA NA 4.4 1.3 1.2 8.7 002450 KS NR 7.850 140,100.00 NA NA 14.6 9.1 1.5 1.4 1.3 1.2 8.7 01107 KS NR 3.03 7.450.00 NA NA 13.2 1.8 1.3 7.0 002475 CH Buy 9.842 38.42 45.1 17% <t< td=""></t<></td> | 1478 HK Buy 756 4.97 6.4 29% 14.9 9.9 1.0 1415 HK NR 2.465 22.35 NA NA 25.2 15.5 4.9 3008 TT NR 10,927 2.610.00 NA NA 14.7 14.1 2.0 306 TT NR 1,758 4970.0 NA NA 14.2 11.9 2.3 4915 TT NR 1,287 88.60 NA NA 14.4 12.7 2.2 2301 TT NR 4,060 8.61 NA NA 14.8 31.5 6.8 002456 CH NR 4,068 229,500.00 NA NA 19.8 31.5 6.8 001100 KS NR 4,081 30.40 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Source: Bloomberg, CMBIGM estimates. Note: Data as of 26 Sep 2024 close.

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