$$\begin{array}{ccc} \mathbf{A}_1 & \xrightarrow{t_1} & \mathbf{V}_1 \\ \alpha_A \downarrow & & \downarrow \alpha_V \\ \mathbf{A}_2 & \xrightarrow{t_2} & \mathbf{V}_2 \end{array}$$